GOVERNMENT OF INDIA

DEPARTMENT OF ARCHAEOLOGY

CENTRAL ARCHÆOLOGICAL LIBRARY

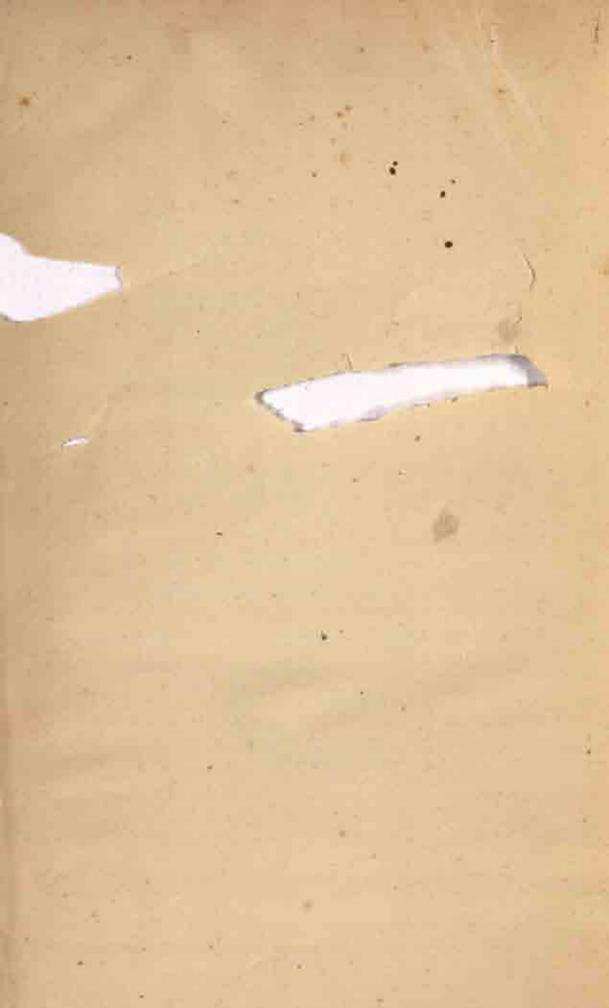
CALL NO. 938.005/J.H.S.

D.G.A. 79

GIPN-S4-2D, G. Arch N D/57,-25-9-58-1,00,000.

A538

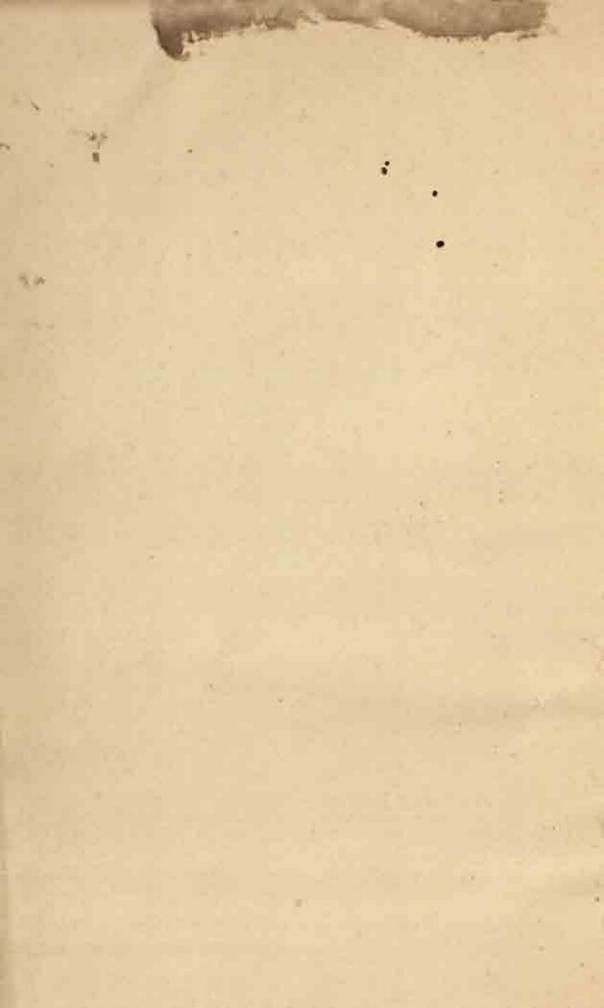




THE JOURNAL

HELLENIC STUDIES





THE SOCIETY FOR THE PROMOTION OF HELLENIC STUDIES

THE JOURNAL

OF

HELLENIC STUDIES

25981

938.005 VOLUME XXXV. (1915)

J. H. S.



PUBLISHED BY THE COUNCIL AND SOLD ON THEIR BEHALF

BY

MACMILLAN AND CO., LIMITED, ST. MARTIN'S STREET LONDON, W.C.

MEDICOCOCKY

The Rights of Translation and Reproduction are Reserved

CENTRAL ARCHIVEOLOGICAN
LIBRARY, NEW DELHI.
Ace. No. 2598/
Date. 22 2 57
Call No. 938 50 5 T. L. S.

PRINTED IN GREAT BRITAIN BY
RICHARD CEAY AND SONS, LIMITED,
BRENSWICK STREET, STAMFORD STREET, S.E.,
AND BUNDAY, STREET.

CONTENTS

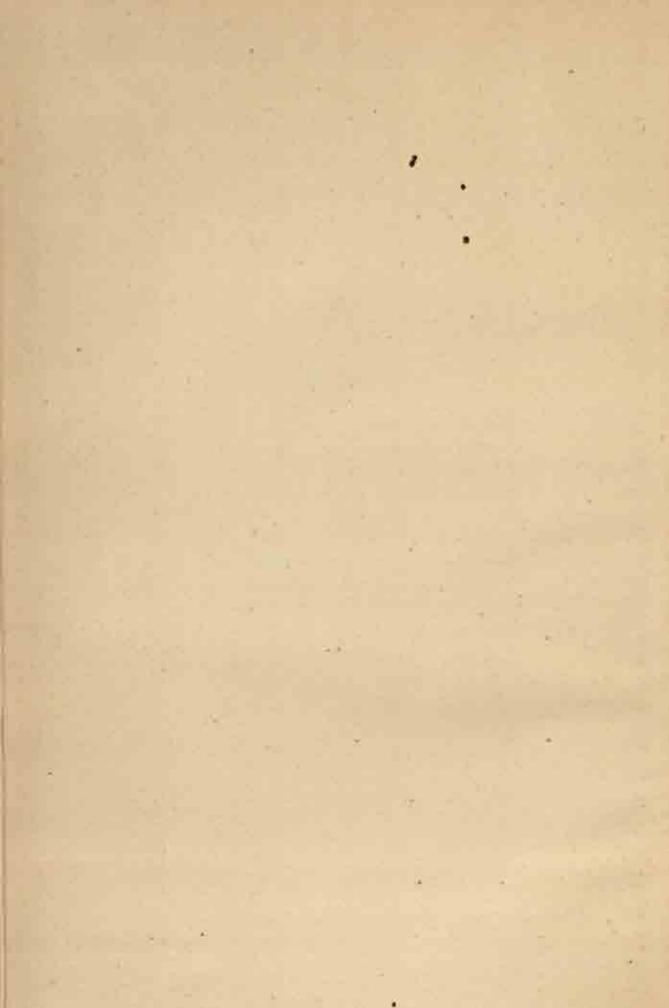
	PAGE
Rules of the Society vir and an angelian was seen	1100,000
List of Officers and Members	xix
Proceedings of the Society, 1914-1915	glv
Financial Statement	11
Additions to the Library and are seen and are seen and are	lvi
Accessions to the Catalogue of Slides	lxii
Notice to Contributors	Ixix
Annes (T. W.) The Date of Hesiod	85
ARKWRIGHT (W.) Notes on the Lycian Alphabet	100
ASHECHNER (W.) A Byzantine Treatise on Taxation.— I	7.6
Caspani (M. O. B.) The Ionian Confederacy	173
CHILDE (V. GORDON) On the Date and Origin of Minyan Ware	196
FOAT (F. W. G.) Anthropometry of Greek Statues (Plates $V\PiIX.$)	225
GARDNER (P.) A Silver Dish from the Tyne	66
Hopper (J. C.) The Bazzichelli Psykter of Euthymides (Plates V., VI.)	189
LEAF, W Rhesos of Thrace	1
On a History of Greek Commerce	161
LETHARY (W. B.) The Noreid Monument Re-examined	208
MINNS (ELLIS H.) Parchments of the Parthian Period from Avroman in Kurdistan (Plates IIII.)	22
Raprono (Evenus) Euphronies and his Colleagues (Plate IV.)	107

CONTENTS

SOUTHGATE (T. LES)	-1-	Ancie	nt F	lutes	from	Egyj	st	937	A (10)	300	12
Top (M. N.)	-1.0	The I	rogn	ess of	Gree	k Ep	grap	hy, 11	114-	15	270
Notices of Books		140		441	Nac	921	000	12.0	1000	110,	271
Index of Subjects	600		350	155	-	800			100		287
Greek Index		155	:11	2.1	1723	225	110	200	153	500	290
List of Books Notic	ord in	- 44	**1	100		>04	•	Carrier .	500	200	291

LIST OF PLATES

- I. Parchment I. from Aveoman.
- II. Parchment II. from Ayroman.
- III. Parchment III. from Avromsa
- IV. Kylix signed by Euphronios. Louvre.
- V., VI. Psykter signed by Euthymides. Turin.
 - VII. Scheme of Geometric Man.
 - VIII. Measurements of Statues. Archaic to Fifth Century.
 - IX. Measurements of Statues and Living Figures.



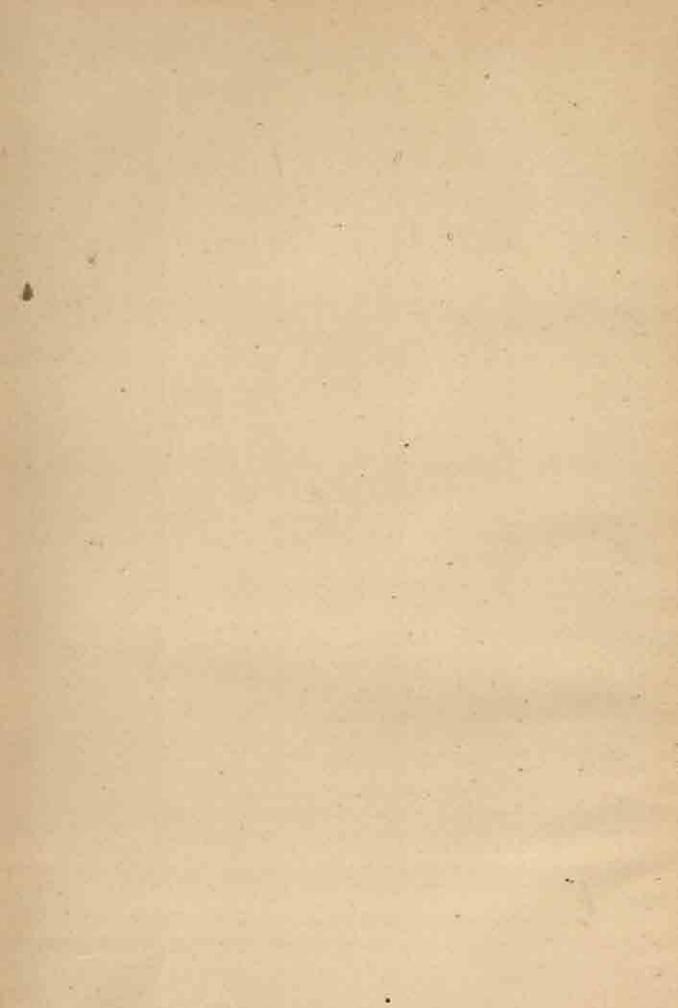
LIST OF ILLUSTRATIONS IN THE TEXT

10	Ancient Flutes from Egypt.									
Fragme	nts of Fintes from Merce	19								
Pare	hments of the Parthian Period from Avroman in Kurdista	n.								
Sketch	Map. Diagram of Parchment II	25								
A Silver Dish from the Tyne.										
Silver L	Dish from Corbridge	67								
Euphronios and his Colleagues.										
Fig. 1.	Details of Hands and Feet	112								
n 30	Heads and one one one one tree end ret	114								
W 30	Warrior and Amszons	117								
201 34	Details of Bodies	125								
$y\in {\mathcal D}_{\mathcal C}$	Figures from Vases and an are an are an are	130								
6.	Details of Drawing	131								
н 7-	Caps and an internal new control on the control and and con-	134								
	The Bazzichelli Psykter of Euthymides.									
Fig. 1.	Psykter at Turin	120								
m 2	Moulding of Neck	191								
38.1	Detail of A	191								

CONTENTS

On the Date and Origin of Minyan Ware.									
Fig.	Į.,	Minyan Pottery from Hagia Marina	197						
**	<u>Q</u>	Urfirnis Ware n n n n n n n n n n n n n n n n n n n	198						
11	3.	Vases from Myoenae	202						
n	4.	Jugs from Pre-Myconsan Tombs in Euboca	905						
88	5.	Cups of Trojan Shape from Euboes	200						
		The Nereld Monument Re-examined.							
Fig.	1.	Plan of the Narrow Frieze	212						
12	ģ.,	Rearrangement of the Second Frieze	315						
	3,	Plan of the Story of the Cella Frieze	217						
		Anthropometry of Greek Statues.							
Fig.	1	Mercury. Gian Bologna	. 997						
24	2.	Symmetrical Balance of Parts	227						
	3_	Durer's Canon	228						
34	4.	Geometric Diagrams	231						
39	5.	Diagram	235						
99.1	60	System of Planes have an entering the transfer and an	. 230						
	7	Diagrami on one on the low on the control of	. 240						
1990	g_{i}	THE WORLD CO. ST. BY SELECT THE VALUE OF MAN	2 841						
- PU	10.	III	. 241						
100	TL.	Comparison of Statues by a few Cardinal Points	240						
	12.	Diagram	247						
Ac	13.	AT THE AND THE REAL PROPERTY OF THE PART HAVE BEEN AND	217						
	24.	at the second se	. 238						

CONTENTS							
ñg.	15.	Diagram	191	1001 1001	*** ****	e	248
,,	16.	Proportions of Head (Mont view)	111	444	\$44 (96e)	1500	249
i en	$\widetilde{1_{T,v}}$	Comparison of Canons (Heads)		200 1.00	28 200	13.55	250
	18.	Metrological Relief at Oxford		110 124	XX 1660	056	255
901	19.	Diagram	222		200 1200		255



RULES

OF THE

Society for the Promotion of Bellenic Studies.

- 1. THE objects of this Society shall be as follows:-
- I. To advance the study of Greek language, literature, and art, and to illustrate the history of the Greek race in the ancient, Byzantine, and Neo-Hellenic periods, by the publication of memoirs and unedited documents or monuments in a Journal to be issued periodically.
- II. To collect drawings, facsimiles, transcripts, plans, and photographs of Greek inscriptions, MSS, works of art, ancient sites and remains, and with this view to invite travellers to communicate to the Society notes or sketches of archæological and topographical interest.
- III. To organise means by which members of the Society may have increased facilities for visiting ancient sites and pursuing archeological researches in countries which, at any time, have been the sites of Hellenic civilization.
- 2. The Society shall consist of a President, Vice-Presidents, a Council, a Treasurer, one or more Secretaries. 40 Hon. Members, and Ordinary Members. All officers of the Society shall be chosen from among its Members, and shall be ex officio members of the Council.
- 3. The President shall preside at all General, Ordinary, or Special Meetings of the Society, and of the Council or of any Committee at which he is present. In case of the absence of the President, one of the Vice-Presidents shall preside in his stead, and in the absence of the Vice-Presidents the Treasurer. In the absence of the Treasurer the Council or Committee shall appoint one of their Members to preside.
- 4. The funds and other property of the Society shall be administered and applied by the Council in such manner as they shall consider most conducive to the objects of the Society: in the Council shall also be vested the control of all publications issued by the Society, and the general management of all its affairs and concerns. The number of the Council shall not exceed fifty.

- 5. The Treasurer shall receive, on account of the Society, all subscriptions, donations, or other moneys accruing to the funds thereof, and shall make all payments ordered by the Council. All cheques shall be signed by the Treasurer and countersigned by the Secretary.
- In the absence of the Treasurer the Council may direct that cheques may be signed by two members of Council and countersigned by the Secretary.
- 7. The Council shall meet as often as they may deem necessary for the despatch of business.
- 3. Due notice of every such Meeting shall be sent to each Member of the Council, by a summons signed by the Secretary.
- 9. Three Members of the Council, provided not more than one of the three present be a permanent officer of the Society, shall be a quorum.
- 10. All questions before the Council shall be determined by a majority of votes. The Chairman to have a casting vote.
- 11. The Council shall prepare an Annual Report, to be submitted to the Annual Meeting of the Society.
- 12. The Secretary shall give notice in writing to each Member of the Council of the ordinary days of meeting of the Council, and shall have authority to summon a Special and Extraordinary Meeting of the Council on a requisition signed by at least four Members of the Council.
- 13. Two Auditors, not being Members of the Council, shall be elected by the Society in each year.
- 14 A General Meeting of the Society shall be held in London in June of each year, when the Reports of the Council and of the Auditors shall be read, the Council, Officers, and Auditors for the ensuing year elected, and any other business recommended by the Council discussed and determined. Meetings of the Society for the reading of papers may be held at such times as the Council may fix, due notice being given to Members.
- 15. The President, Vice-Presidents, Treasurer, Secretaries, and Council shall be elected by the Members of the Society at the Annual Meeting.
- 16. The President shall be elected by the Members of the Society at the Annual Meeting for a period of five years, and shall not be immediately eligible for re-election.
- 17. The Vice-Presidents shall be elected by the Members of the Society at the Annual Meeting for a period of one year, after which they shall be eligible for re-election.

- 18. One-third of the Council shall retire every year, but the Member to retiring shall be eligible for re-election at the Annual Meeting.
- 19. The Treasurer and Sectetaries shall hold their offices during the pleasure of the Council,
- 20. The elections of the Officers, Council, and Auditors, at the Annual Meeting, shall be by a majority of the votes of those present. The Chairman of the Meeting shall have a casting vote. The mode in which the vote shall be taken shall be determined by the President and Council.
- 21. Every Member of the Society shall be summoned to the Annual Meeting by notice issued at least one month before it is held.
- 22. All motions made at the Annual Meeting shall be in writing and shall be signed by the mover and seconder. No motion shall be submitted, unless notice of it has been given to the Secretary at least three weeks before the Annual Meeting.
- 23. Upon any vacancy in the Presidency occurring between the Annual Elections, one of the Vice-Presidents shall be elected by the Council to officiate as President until the next Annual Meeting.
- 24. All vacancies among the other Officers of the Society occurring between the same dates shall in like manner be provisionally filled up by the Council until the next Annual Meeting.
- 25. The names of all candidates wishing to become Members of the Society shall be submitted to a Meeting of the Council, and at their next Meeting the Council shall proceed to the election of candidates so proposed: no such election to be valid unless the candidate receives the votes of the majority of those present.
- 26. The Annual Subscription of Members shall be one guinea, payable and due on the 1st of January each year; this annual subscription may be compounded for by a single payment of £15 155., entitling compounders to be Members of the Society for life, without further payment. All Members elected on or after January 1, 1905, shall pay on election an entrance fee of two guineas.
- 27. The payment of the Annual Subscription, or of the Life Composition, entitles each Member to receive a copy of the ordinary publications of the Society.
- 28. When any Member of the Society shall be six months in arrear of his Annual Subscription, the Secretary or Treasurer shall remind him of the arrears due, and in case of non-payment thereof within six months after date of such notice, such defaulting Member shall cease to be a Member of the Society, unless the Council make an order to the contrary.

- 29. Members intending to leave the Society must send a formal notice of resignation to the Secretary on or before January 1: otherwise they will be held liable for the subscription for the current year.
- 30. If at any time there may appear cause for the expulsion of a Member of the Society, a Special Meeting of the Council shall be held to consider the case, and if at such Meeting at least two-thirds of the Members present shall concur in a resolution for the expulsion of such Member of the Society, the President shall submit the same for confirmation at a General Meeting of the Society specially summoned for this purpose, and if the decision of the Council be confirmed by a majority at the General Meeting, notice shall be given to that effect to the Member in question, who shall thereupon cease to be a Member of the Society.
- 31. The Council shall have power to nominate 40 British or Foreign Honorary Members. The number of British Honorary Members shall not exceed ten.
- 32. The Council may, at their discretion, elect for a period not exceeding five years Student-Associates, who shall be admitted to certain privileges of the Society.
- 33. The names of Candidates wishing to become Student-Associates shall be submitted to the Council in the manner prescribed for the Election of Members. Every Candidate shall also satisfy the Council by means of a certificate from his teacher, who must be a person occupying a recognised position in an educational body and be a Member of the Society, that he is a bond fide Student in subjects germane to the purposes of the Society.
- 34. The Annual Subscription of a Student-Associate shall be one guinea, payable and due on the 1st of January in each year. In case of non-payment the procedure prescribed for the case of a defaulting Ordinary Member shall be followed.
- 35. Student-Associates shall receive the Society's ordinary publications, and shall be entitled to attend the General and Ordinary Meetings, and to read in the Library. They shall not be entitled to borrow books from the Library, or to make use of the Loan Collection of Lantern Slides, or to vote at the Society's Meetings.
- 36. A Student-Associate may at any time pay the Member's entrance fee of two guineas, and shall forthwith become an Ordinary Member.
- 37. Ladies shall be eligible as Ordinary Members or Student-Associates of the Society, and when elected shall be entitled to the same privileges as other Ordinary Members or Student-Associates.
- 38. No change shall be made in the Rules of the Society unless at least a fortnight before the Annual Meeting specific notice be given to every Member of the Society of the changes proposed.

REGULATIONS FOR THE USE OF THE LIBRARY

AT 19 BLOCKISBURY SQUARE, W.C.

 That the Hellenic Library be administered by the Library Committee, which shall be composed of not less than four members, two of whom shall form a quorum.

II. That the custody and arrangement of the Library be in the hands of the Hon, Librarian and Librarian, subject to the control of the Committee, and in accordance with Regulations drawn up by the said Committee and approved by the Council.

III. That all books, periodicals, plans, photographs, &c., be received by the Hon. Librarian, Librarian or Secretary and reported to the Council at their next meeting.

IV. That every book or periodical sent to the Society be at once stamped with the Society's name.

V. That all the Society's books be entered in a Catalogue to be kept by the Librarian, and that in this Catalogue such books, &c., as are not to be lent out be specified.

VI. That, except on Christmas Day, Good Friday, and on Bank Holidays, the Library be accessible to Members on all week days from 10.30 A.M. to 5.30 P.M. (Saturdays, 10 A.M. to 1 P.M.), when either the Librarian, or in his absence some responsible person, shall be in attendance. Until further notice, however, the Library shall be closed for the vacation for August and the first week of September.

VII. That the Society's books (with exceptions hereinafter to be specified) be lent to Members under the following conditions:-

- (1) That the number of volumes lent at any one time to each Member shall not exceed three; but Members belonging both to this Society and to the Roman Society may borrow six volumes at one time.
- (2) That the time during which such book or books may be kept shall not exceed one month.
- (3) That no books, except under special circumstances, be sent beyond the limits of the United Kingdom.
- VIII. That the manner in which books are lent shall be as follows:-
 - (1) That all requests for the loan of books be addressed to the Librarian.
 - (2) That the Librarian shall record all such requests, and lend out the books in the order of application.
 - (3) That in each case the name of the book and of the borrower be inscribed, with the date, in a special register to be kept by the Librarian.
 - (4) Should a book not be returned within the period specified, the Librarian may reclaim it.

(5) All expenses of carriage to and fro shall be borne by the borrower.

(6) All books are due for return to the Library before the summer

IX. That no book falling under the following categories be lent out under any circumstances:-

(1) Unbound books.

(2) Detached plates, plans, photographs, and the like.

(3) Books considered too valuable for transmission.

(4) New books within one month of their coming into the Library.

X. That new books may be borrowed for one week only, if they have been more than one month and less than three months in the Library.

XI. That in the case of a book being kept beyond the stated time the borrower be liable to a fine of one shilling for each week after application has been made by the Librarian for its return, and if a book is lost the borrower be bound to replace it.

XII That the following be the Rules defining the position and

privileges of Subscribing Libraries:-

- a Libraries of Public and Educational Institutions desiring to subscribe to the fournal are entitled to receive the fournal for an annual subscription of One Guinea, without Entrance Fee, payable in January of each year, provided that official application for the privilege is made by the Librarian to the Secretary of the Society.
- b. Subscribing Libraries, or the Librarians, are permitted to purchase photographs, lantern slides, etc., on the same conditions as Members.
- Subscribing Libraries and the Librarians are not permitted to hire lantern slides.
- d. A Librarian, if he so desires, may receive notices of meetings and may attend meetings, but is not entitled to vote on questions of private business.

e. A Librarian is permitted to read in the Society's Library.

f. A Librarian is not permitted to borrow books, either for his own use, or for the use of a reader in the Library to which he is attached.

The Library Committee.

PROF. R. S. CONWAY.

*MR. G. D. HARDINGE-TVLER.

*PROF. F. HAVERFIELD.

Mr. G. F. HILL

*MR. T. RICE HOLMES

MISS C. A. HUTTON.

MR. A H. SMITH (Hon. Librarian)

MR. J. ff. BAKER-PENOYRE (Librarian).

Applications for books and letters relating to the Photographic Collections, and Lantern Slides, should be addressed to the Librarian, at 19 Bloomsbury Square, W.C.

Representatives of the Roman Society.

THE SOCIETY FOR THE PROMOTION OF HELLENIC STUDIES.

OFFICERS AND COUNCIL FOR 1914-1915

resident.

MR. WALTER LEAF, LITTLE, D.LITT.

Vice-Presidents.

STR SIDNEY COLVIN. D.LAUT. SIR ARTHUR EVANS, F.R.S., D. LITTI, L.L.D. MR. L. R. FARNELL D. Lett. SER J. G. FRAZER, LL.D., D.C.L. LIEUT. ERNEST GARDNER PROF. PERCY GARDNER, LIST.D. MR OF HILL ME D. G. HOGARTH. PROF. HENRY JACKSON, O.M. MR. H STUART JONES. STREEREDERIC KENYON, E.C.B. F.B.A. D.LITT.

PROP. GILBERT MURRAY. PROF. SIR W. M. RAMSAY, D.C.L. LL.D. Levr. D., D.D. PROF. WILLIAM RIDGWAY SIR JOHN SANDYS, LITTLD. REV. PROF A. H. SAYCE LITED., D.LITT. MR A. HAMILTON SMITH. SIR CECH. HARCOURT-SMITH, LL.D. SIR CHARLES WALDSTEIN, LITTLE, FR.F. L.H.D.

MR. W. C. F. ANDERSON. MR. J. D. BEAZLEY, MR. M. L. BELL. MR E R. HEVAN MR. W. H. BUCKLER. PROP. KONALD BURROWS MR. M. O. B. CASPARL LIEUT. F. M. CORNFORD. MR. A. M. DANIEL. MR. R. M. DAWKINS. MR. GUY DICKINS. MOR J P. DROOP. MR. C. C. EDGAR. MR. TALFOURD BLY, D.L. ... LADY EVANS

CAPTAIN E. J. FORSDYKE MR. THEODORE PYFE. MR. E. NORMAN GARDINER. MIL H. R. WALL MISS JANE E. HARRISON, LL.D., D. LID. MISS C. A. HUTTON. MR. E. H. MINNS. ME EXNEST MYERS. MRS. S. ARTHUR STRONG, LILLA, LITT. D. PROF. PERCY N. URE. MR. A. J. E. WACE. MIL IL B. WALTERS. PROF. W. C. FLAMSTHAD WALTERS. MIL A E. ZIMMERN.

Hon. Secretary.

MR. GEORGE A. MACMILLAN, D.Jatt., ST. MARTIN'S STREET, W.C.

Hon. Treasurer.

MR DOUGLAS W FRESHFIELD,

Assistant Treasurer.

MR. GEORGE GARNETI, ST. MARTIN'S STREET, W.C.

Hon. Librarian.

MIL A. HAMILTON SMITH.

Secretary, Librarian and Keeper of Photographic Collections.

HR. J. E BAKER-PENOYRE, 14 BLOOMSHURY SQUARE W.C.

Assistant Librarian.

MR. F. WISE, P. BLOOMSBURY SQUARE, W.C.

Acting Editorial Committee. CAPTAIN E I FORSDYKE. | LIEUT ERNEST GARDNER. | MR. G. F. HILL.

Consultative Editorial Committee.

SIR SIDNEY COLVIN | PROFESSOR PERCY GARONER PROFESSOR HENRY JACKSON, PROFESSOR GILBERT MURRAY, SIR FREDERIC KENYON and MR. A. J. B. WACE (ex-officio sa Director of the British School at Alberta).

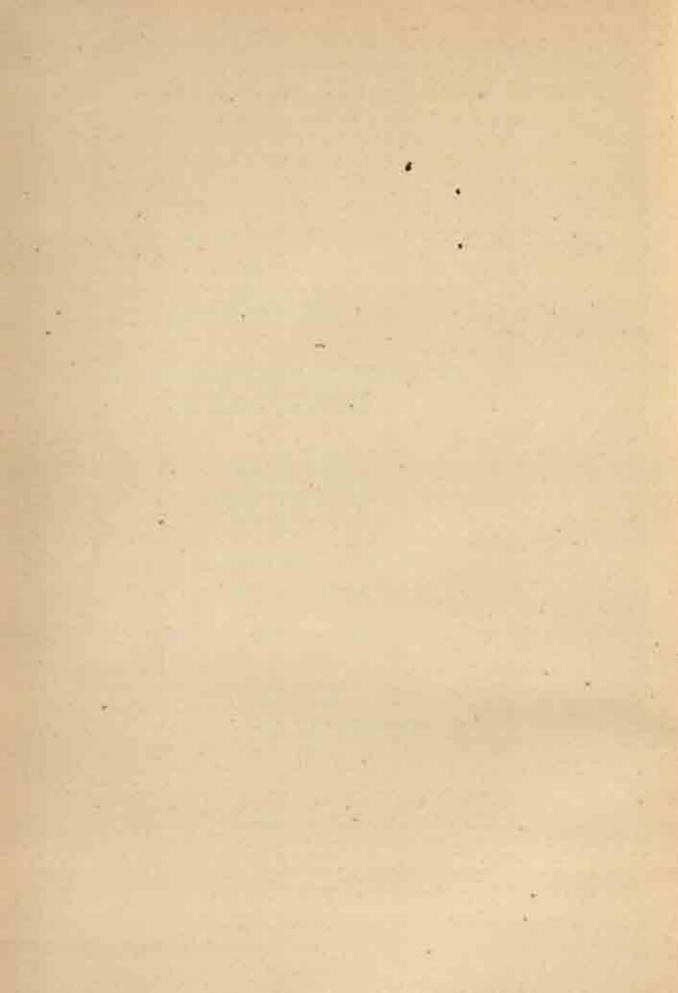
Auditors for 1914-1915.

ME C. F. CLAY.

CAPTAIN W. P. P. MACMILLAN

Bankers.

MESSRS, COUTTS & CO. 13 LOMBARD STREET.



HONORARY MEMBERS.

HIS MAJESTY THE KING OF THE HELLENES, & M. le Secrétaire du Roi des Hellenes, Athens.

Dr. W. Amelung, Villino Antonia, Via Andrea Cesaipino 1, Rome.

Sir Alfred Biliotti, K.C.B.

Prof. Maxime Collignon, La Sortonne, Paris.

Prof. D. Comparetti, Istituto di Studii Superiori, Florenze. Prof. Hermann Diels, Nürnbergerstrasse, 65th Berlin, W., 50.

Prof. Wilhelm Dr. Dörpfeld, Ph.D. D.C.L., Berlin-Friedenau, Niedstrasse, 220-

Monsieur L'Abbe Duchesne, Ecole Française, Rome.

Monsieur P. Founart.

*His Excellency J. Gennadius, D.C.L. Minister Plenipotentiary for Greece, 14, de Vere Gardens, Kensington.

Prof. B. L. Gildersleeve, Johns Hopkins University, Baltimore, U.S.A.

Prof. Federico Halbherr, Via Arenula, 21, Rome.

H. E. Halil Bey, Muster Impériaux Ottomans, Constantinople.

Monsieur Joseph Hazzidaki, Keeper of the National Museum, Candia, Crete.

Prof. W. Helbig, Villa Lante, Rome.

Monsieur Th. Homolle, Bibliothèque Nationale, Paris-

Dr. F. Imhoof-Blumer, Winterthur, Switzerland.

Monsieur P. Kayvadias, Athens.

Dr. K. F. Kinch, 20, St. Annes Plads, Copenhagen.

Prof. Georg Loescheke, The University, Bonn.

Prof. Emmanuel Locwy, Via del Progresso, 23, Rome.

Prof. Eduard Meyer, Gross Lichterfelde, Mommsen-Strasse, Berlin, W.

Signor Paolo Ocsi, Director of the Archaeological Museum, Syracuse, Sicily.

M. Georges Perrot, 25, Quai Conti, Paris.

Prof. E. Petersen, 13. Friedricharuke Stratte, Haleuser, Berlin.

Monsjour E. Pottier.

Monsieur Salomon Reinach, 4, Rue de Traklir, Paris, XVIe.

Prof. Carl Robert, The University, Halle.

M. Valeries Stais, National Museum, Athens.

Prof. F. Studniczka, Leibnizstrawe 11, Leibsic.

M. Ch. Tsountas, National Museum, Athens

Prof. T. Wiegund, 30, Peter Lennestrasse, Revin-Dahlen.

Prof. Ulrich v. Wilamowitz-Möllendorff, The University, Berlin.

Dr. Adolf Wilhelm, Archaeal. Epigraph. Seminar, K. K. Universität, Vienna.

Prof. John Williams White, Cambridge, Mass., U.S.A.

Prof. Paul Wolters, Teng-Strusse, 20/1 Reckts, Munich, Bauaria.

LIST OF MEMBERS.

* Original Members.

Life Members.

Life Members.

Life Members. However Canal Fine other Members have been elected by the Canal time the Imaginal Meeting.

Abbot, Edwin, Jesus College, Cambridge,

tAbbot, Edwin H., I, Follen Street, Cambridge, Muss., U.S.A.

Abercrombie, C. M., Three Thorns Cottage, Moor Lane, Wilmstow, Cheshare,

Abernathey, Miss A. S., Bishops Hall West, St. Andrews, Fife.

Abrahams, Miss, 84, Portulown Road, Maida Vale, W.

Acat, Miss Alice, 138, Troys Street, Preteria, Transvaul, South Africa.

Adams, Miss Mary G., Heathfield, Broadstone, Dorset.

†Adeock, F. E., M.A., King's College, Combridge.

Alexander, John B., 5, Upper Bedford Place, Russell Square, W.C.

Alexandroff, J. A., Sedgley Mount, Prestaich, Lancashire.

Alington, Rev. C. A. School House, Shrewsbury.

Allbutt, Professor Sir T. Chifford, K.C.B., M.D., F.R.S., Chaucer Road, Cambridge.

Alleroft, A. Hadrian, Owlewick, Iford, near Lewes, Survey,

Allen, L. B.

Allen, T. W., Queen's College, Oxford.

Alleyne, Miss Stella M., 16, Creil Court, Hollywood Road, S. W.

Alton, Ernest Henry, Trinity College, Dublin.

Amberst, Hon. Florence M. T., Foulden Hall, Stoke Ferry, Norjotk.

Amherst of Hackney, Baroness, 23, Queen's Gale Gardens, S. W.

Anderson, James, L. Odor Valaoriton, Athens, Greece.

Anderson, J. G. C., Christ Church, Oxford.

Anderson, R. H., Kindar, 95. Alexandra Road, St. John's Wood, N.W.

Anderson, Prof. W. C. F. (Council), Hermit's Hill, Burghfield, Mortimer, A.S.C.

Amlerson, Yarborough, The Belvedere, 37, Esplanade, Scorborough.

Amierton, Basil, Public Library, Newcoulle-on-Tyne.

Andrews, Prof. Newton Lloyd, Colgate University, Humilton, N. V., U.S.A.

Augus, C. F., Trinity Hall, Cambridge.

Appleton, R. B., Lyndewede House, Lyndewede Road, Cambridge.

†Arkwright, W., Great Grands, Newbury.

Aslobutner, W., 6, Plassa San Lorenzo, Florence.

* Asquith, Raymond, 49, Bedford Square, W.C.

Awdry, Miss F., The Porch House, Lucock, near Chippenham, Wilts.

Bagge, Miss L., Stradsett Hall, Downham Market, Norfolk.

Bailey, Cyril, Balliol College, Oxford.

Bailey, J. C., 34. Quent's Gate Gardens, S.W.

Baker, H. T., M.P., 42, Queen Annés Gate, Westminster, S.W.

Baker-Penoyre, Miss, Teme House, Chellenkam.

Baker-Penoyre, J. ff. (Secretary & Labrarian), 8, King's Bench Walk, Inner Temple, E.C.

*Balfour, Right Hon. A. L. M.P., 4, Carlton Gardons, S.W.

*Balfour, Right Hon. G. W., Fishers' Hill, Woking, Surrey

Ball, Sidney, St. John's College, Oxford.

Barber, E. A., B.A., Exeler College, Oxford.

Barge, Mrs. M., Weircroft, Mill Lane, Henley-on-Thames.

Baring, Thus., Sunningkill Park, Ascot.

+Barlow, Miss Annie E. F., Greenthorne, Edgworth, Bolton

Barlow, Lady, to, Wimpole Street, W.

Barnsley, Sidney H., Pinbury, near Circucester.

Barran, Sir J. N., Batt., Saudey Hall, Ripon, Yorkshire.

Bates, Oric, co Brown Shipley & Co., 123, Pall Mall, S.W.

Bather, Rev. Arthur George, Sunnyside, Winchester.

Bartle, Professor William James, Austin, Texas,

Beare, Prof. John L., 9, Trinity College, Dublin.

†Beaumont, Somerset, Shere, near Guildford.

Bearley, J. D. (Council) Christ Church Oxford.

Bell, If. L (Council), British Museum, W.C.

+Beil, Harold Wilmerding, 1737, Cambridge Street, Cambridge Mass. U.S.A. Bell, Miss Gertrude, 95, Stoane Street, S.W.

+Benecke, P. V. M., Magdalen College, Oxford.

Bennett, S. A., Warreleigh, Budleigh Sallerton.

Bent, Mrs. Theodore, 13. Great Cumberland Place, W.

Berestord, George Charles, 20, Yeoman's Row, S. W.

Berger-Levrault, Theodore 22, Kee de Maissville, Nancy, France.

Bernays, A. E., 3, Priory Road, Kew, Surrey.

Berry, James, 21, Wimpole Street, W.

Bevan, E. R. (Council). Sun House, 6, Chelses Embanement, S. W.

Bienkowski, Prof. P. von, Basstosna Strasse, 5, Krakau.

Billson, Charles J., The Priory, Martyr Worthy, near Winchester.

Hissing, Dr. von, Leopolistrasse, 34, Munchen. Blackett, J. P. N., 22, South Street, Durham.

Balling, George M., Johns Hopkins University, Baltimore, Maryland, U.S.A.

Bosanquet, Prof. R. Carr, Institute of Archaeology, 40, Stedford St. Liverpoot.

Bowlby, Rev. Henry, Lancing College, Shoreham-by-Seo, Sussex. Boyd, Rev. Henry, D.D., Principal of Hertford College, Oxford.

Boyle, Lady Constance, 65, Queen's Gate, S.W. Boys, Rev. H. A., North Cadbury Rectory, Bath.

Bramley, Rev. H. R., Nettleham Field, Lincoln.

Bramwell, Miss, 73, Chriter Square, S. W.

Brandt, D. R., 15, Lennox Gardens, S. W.

Brice-Smith, R., Cathedral School, Llandaff.

Brightman, Rev. F. E., Magdalen College, Oxfora.

Brooke, Rev. A. E., King's Callege, Cambridge.

Brooke-Taylor, B., The Hall, Bakewell, Derbyshire

Brooks, E. W., 28, Great Ormand Street, W.C.

Brooks, G. D. Forsythe, Bronwydd, Pentyrch, nr. Cardiff.

Brooksbank, Mrs., Leigh Place, Godstone.

Brown, Adam, Netherby, Galachielt,

Brown, A. C. B., Aston Vicarage, Stone, Staffordshire.

Brown, Prof. G. Baldwin, The University, Edinburgh.

Brown, James, Netherby, Galashiels, N.B.

Brown, John Rankine, Pembroke College, Oxford.

Browne, Mrs. Gore, Brooklands, Weybridge.

Browne, Rev. Henry, St. Ignutius, 35, Lower Leeson Street, Dublin.

Bruce, Hon. W. Napier, 14, Cranley Gardens, S. W.

Brudeneil-Bruce, Lord Frederick, 11, Glomester (vate, Regent's Park, N.W.

Bryans, Clement, Arundet House, Hayling Island.

*Bryce, Viscount, O.M., D.C.L., Litt.D., Hindleap, Forest Rose, Sussex.

Buckler, W. H. (Council), American Embassy, 18, Relgrave Square, S. W.

Buckler, Mrs. W. H., Wellbank, Taplow. Buckler, Miss L. R., Wellbank, Taplone,

Bull, Rev. Herbert, Wellington House, Westgate on Sea.

Burdon, Rev. Rowland John, St. Peter's Vicarage, Chichester.

Buren, Mrs. Van, Cam Gianicolo, Via Calundrelli, Rome.

Barnaby, R. B., High Street, Uppingham.

Burnet, Prof. J., 19, Queen's Terrace, St. Amfrew, N.B.

Burroughs, Rev. E. A., Hertford Callege, Oxford.

Burrows, Principal Ronald (Council), King's College, Strand, W.C.

Burton-Brown, Mrs., Priors Field, Gadaining,

Bury, Prof. J. B., LL. D. Litt. D., D. Litt., King's College, Cambridge.

Butler, Prof. H. C., Princeton University, Princeton, New Jersey, U.S.A.

Butler, Prof. H. E., 14, Norham Gardens, Oxford.

*Butler, The Very Rev. H. M., D.D., D.C.L., Master of Trinity College, Cambridge

Butler, Leonard, St. John's College, Oxford.

Buston, Mrs A. F., Fairhill, Tonbridge.

Callander, Prof. T., Queen's University, Kingston Ontaria.

†Calvocoressi, L. M., Junior Athenoum Club, 116, Piccadilly, W.

Calvocoressi, Pandia, J., Holme Hey, Cruxteth Drive, Liverpool.

Cambridge, A. W. Fickard Balliol College, Oxford.

Cameron, Captain J. S., Low Wood, Bethersden, Ashford, Kent.

Campbell, Mrs. Lewis, 42, Iverna Court, Kensington, W.

Capps, Prof. Edward, Princeton University, New Jersey, U.S.A.

Carey, Miss, 13, Eldon Road, Kensington.

*Carlisle, A. D., Northacre, Godalming.

Carlisle, Miss Helen, Upper Brook House, Uttoxeter.

*Carmichael of Skirling, Right Hon. Baron, co Mr. L. A. Morrison, Murrayfield, Biggar,

Carpenter, Miss Agnes Miles, 54, East 57th Street, New York, U.S.A.

Carpenter, Rev. J. Estlin, 11, Maraton Ferry Road, Oxford.

*Carr, Rev. A., Addington Vicarage, Croydon.

†Carr, H. Wildon, D.Litt., More's Garden, Cheyne Walk, S.W.

Carter, Frank, A hidene, Winchester.

Carter, Reginald, Grammor School, Bedford.

†Carthew, Miss, 6, Albert Place, Victoria Road, Kensington, W.

Case, Miss Janet, 5. Windwill Hill, Hampstead, N.W.

Case, Prof. T., President of Corpus Christi College, Axford.

†Caspari, M. O. B. (Council) University College, London.

Cassavetti, D. J., Savile Club, 107, Piccadilly, IV.

Casson, Stanley, 34, Oubley Crescent, Chelica.

Caton, Richard, M.D., Holly Lee, Livingston Drive South, Liverpool.

Cattley, T. F., Elan Callege, Windsor,

Chambers, Edmund Kirchever, Board of Education, Whitehall, S. W.

Chance, Frederick, 30, Lennox Gardens, S. W.

Chapman, Miss D., University Hall, Fairfield, Liverpool.

Chapman, R. W., 5, Polstend Road, Oxford.

Chase, George H., 11, Kirkland Road, Cambridge, Marga U.S.A.

Chavasse, A. S., Lynch Rectory, near Midhurst, Susses.

Cheetham, Right Hon. J. Frederick, Eastwood, Staleybridge.

Cheetham, J. M. C., Exford Park, Bourton on the Water, R.S.O., Gloncestershire.

Chitty, Rev. George J., Eton College, Windsor.

Churchill, E. 1., Eton College, Windson.

Churchill, Rev. W. H., Stone House, Brandstairs.

Clark, Charles R. R., vz. Victoria Grove, Kennington, W.

Clark, Rev. R. M. Denttone College, Staffordshire,

*Ciark-Maxwell, Rev. W. Gilchrist. St. Leonard's Rectors, Bridgeorth.

Clarke, Somers, F.S.A., 35, St. James Place, S.W.

Clatworthy, Mrs. K., 12, New Rand, Rending.

Chuson, A. C., Hawkshead House, Hatheld, Herts

Clay, C. F., 41, Kensington Park Gardens, W.

Clements, E. J.C.S.), Dhulia, W. Kandesh, India.

Cohen, Donald H., J. New Square, Lincoln's Inn, W.C.

Cole, A. C., 64, Portland Place, W.

Collingwood, Robin George, Fembroke College, Oxford.

*Colvin, Sir Sidney, D.Litt. (V.P.), 35, Palace Gardens Terrocc. Kensington, W.

Compton, Miss A. C. Miniteal Pasonage, Lymthurst.

Compton, Rev. W. C., Sandhurst Rectory, Kent.

Connal, Prof. B. M., The University, Leeds.

Conway, Prof. R. S., Lau, D., Draethen, Didsbury, Manchester.

Conway, Sir W. M., Allington Cartle, Muldidone.

Conybeare, F. C., 54, Banbury Road, Oxford,

Cook, Arthur Bernard, 19, Crunmer Boad, Cambridge.

Cook, T. A., Braiksningst, Tudworth, Surrey.

Cooke, Miss P. B. Mudie, A Parthester Terrace, W.

Conke, Rev. A. H., Aldenham Schnol, Elstree, Herts.

Cooke, Richard, The Croft, Dalling, Maidelone.

Cookson, C., Magdalen College, Oxford.

Corbet, Eustace K., C.M.G., Resk House, Boughton Monchelsea, near Maidstone.

Corley, Fernand E., Torfels, Vungambabkum, Maifras.

Cornford, Lient, F. M. (Conned), Trinity College, Cambridge

Coming, Prof. H. K., Bunderstraine 17, Busel, Switzerland,

Couplind, Reginald. Trimity College, (Xvford,

Courtaild, Miss Carberine, Bocken, Great Miconden.

Cowle, George S., c/n The Landon and Provincial Bank, 127 Edgmars Rand, N.W.

Cowper, H. Swainson, Loddenden Manor, Staplehurst, Kent.

Coxens-Hardy, The Hon. Mrs., t; Halkin Place, S.W.

Grace. J. F., Eton College, Windsor.

Crawford, G. R., 119, Glancester Terrair, Hyde Park, W.

Crewdson, Wilson, Southaids, St. Leonards on Sea.

Cromer. The Earl of, O. M., 36, Wimpole Street. W.

Cronin Rev. H. S., Trinity Hall, Cambridge.

Crooke, W., Langton House, Charlton Kings, Chellenham.

†Crossman, C. Stafford, Buckhuret Hill House, Buckhurst Hill, Essex.

Crowfoot, J. W., Khartum, Soudin

Crulleshank, Prof. A. H., The University, Durkam,

Cust, Dionel, Dutchet House, Datchet, Windsor.

Dakyns, G. D., Grammur School, Morfeth.

D'Alton, Rev. Prof. J. F., St. Patrick's College, Maynouth

Daniel, A. M. (Council), 14, Royal Crescent, Scarborough.

Daniel, Rev. C. H., Propost of Worcester College, Oxford.

Danson, F. C., Tower Buildings, Liverpool.

David, Rev. A. A., The School, Rugby.

Davies, Miss F., 27, Little Gaddisdon, Berkhamsted.

Davies, Prof. G. A., The University, Glasgow.

Davies, L., St. Edward's School, Oxford,

Davis, Miss Gladys M. N., D.Litt., M.A., Clandurragh, Forrock, co. Dublin.

Dawes, Rev. J. S., D.D., Chapetville, Grove Road, Surbiton, S.W.

†Dawes, Miss E. A. S., M.A., D.Litt., Weybridge, Surrey.

Dawkins, R. M. (Council), Plas Dulas, Llandulas, N. Wales.

De Billy, Madame Edouard, 4, Rue de Tallegrund, Paris, VII-

De Burgh, W. G., University College, Reading.

tDe Gex, R. O., Clifton College, Bristol.

Demetriadi, A. C., Heathlands, Prestwick, Lancashire.

Demetriadi, G. C., The Holme, Sadgley Park, Presturch.

†De Rothschild, Anthony, 5, Hamilton Place, W.

De Sammarez, Lord, Shrubland Park, Coddenham, Suffalk,

Desborough, Right Hon. Baron, Taplow Court, Taplow, Bucks.

†Deubner, Frau Dr., 7, Ernst Wickert Strasse, Maraunenhof, Koenigsberg i Pr.

Dickins, F. V., C.B., Seend Lodge, Sound, Wills.

Dickins, Guy (Council), Apriley Croft, Oxford.

Dickson, Miss Isabel A., 17, Pelham Crescent, S.W.

Dill, Sir S., Montpeller, Malone Road, Belfast.

Dobie, Marryat R., British Museum, W.C.

Dobson, Miss, Alva, Battledown, Cheltenham

Dobson, Prof. J. F., by Coldharbaur Road, Redland, Bristol.

Doll, Christian, 5, Southampton Street, Bloomsburg, W.C.

Douglas-Pounant, The Hon. Alice, Penchys Castle, Bangor, N. Wales.

Downing, William H., Medecroft, Olton, Birmingham,

Drage, Mrs. Gilbert, The Rhodd, near Prestelene, Radiorshire,

Drake, H. L., Pembroke College, Oxford.

Droop, J. P. Council, 11, Cleveland Gardens, Hyde Park.

Dryhurst, A. R., 11, Downshire Hill, Hampstead, N.W.

Duff, Prof. J. Wight, Armstrong College, Newcaelle on Tyne.

Duhn, Prof. von, University, Heidelberg.

Duke, Roger, a, Pelham Cretient, S.W. Dundus, R. H., Phantairie, Prestonkirk, East Lothian.

Dunham, Miss A G., 15. Oxford Road, Worthing.

Dunlop, Miss M., 23, St. James's Court, Buckingham Cate, S. W.

Dyde, W. Farrell, 4, Upper Redford Place, W.C.

Eagleston, Arthur J., Home Office, Whitehall, S.W.

Earp, F. R., 15, Sheen Park, Richmond, Surrey.

Enton, Alexander C. (8th Battn. Bedfordelitte Regt.), Dellingen Barracks, Blackdown, Alitershot.

†Edgar, C. C. (Council), Antiquities Dept. Mansourak, Egypt.

Edgar, C 5, Kya Lami, Stellenboch, South Africa,

Edmunds, J. Maxwell, The Rookery, Thetford, Norfolk.

Edwards, G. M., Sidney Sussex College, Camoridge.

Egerton, Right Hon, Sir Edwin H., G.C.B., The Cliff, Terrington, Yorks.

Egerton, Mrs. Hugh, 14, St. Giller, Oxford.

† Elliot, Sir Francis Es H., K.C.M.G., H.B.M. Minister, British Legation, Athens.

Elwell, Levi H., Amherst Callege, Amherst, Mass., U.S.A.

Ely, Talfourd, D.Litt. (Council), 92, Fritzjohns Avenue, Hampitoud, N.W.

Estalle, Mrs. Arundell, Keynes, Austenway, Gerrards Cross, Bucks.

*Emmoriopoulos, George, Clandon Regio, West Clandon, near Gullisford, Survey.

Emnorfopoulos, N., 24, Pembridge Gardens, W.

Evans, Sir A. J., LL.D., D.Litt., F.R.S. (V.P.), Voulbury, Berky near Oxford.

Evans, F. Gwynne, The Tower Hause, Woodchester, Strand.

*Evans, Lady (Council), or Union of London and Smith's Bank, Berkkamstead, Herts.

Evans, Miss Joan, St. Hugh's College, Oxford.

Evans, Richardson, The Kelr, Wimbledon.

Evelyn-White, Lieut. H. G., Rampton, near Cambridge.

Exercit, The Right Rev. the Lord Bishop of D.D., The Palace, Exeler.

Fairclough, Prof. H. R., Stanford University, Cal., U.S.A.

Fanshawe, Reginald,

Farie, Miss K. M., Farnie Cottage, Grayshott, Hunts.

Farnell, L. R. D.Litt (V.P.) Restor of Exster College, Oxford.

Farrell Lieut, Jerome, Breokside, Newland Park, Hull, Vorks.

Farside, William, 39, Slame Gardens, S.W.

Fegan, Miss E. S., The Ludier College, Cheltenham.

Felkin, F. W., Sherwood, Heronsgale, near Richmansworth,

Ferguson, Prof. W. S., 17, Chauncy Street, Cambridge, Mass., U.S.A.

Field, Rev. T., D.D., St. Mary's Finance, Nattingham.

Finlay, The Right Hon. Sir Robert, K.C., 31, Phillimore Gardens, Kensington, IV.

Finn, Rev. D. J., Sillgusse 2, Innsbruck, Tirol.

Fisher, C. D., h. Phone Street, Chelsen, S. W.

Fisher, H. A. L., The Grange, Eccleshall, Sheffield.

Fargerald, Augustine, Co Mesers. Hallingues (Banquiers), 38, Rue de Provence, Paris

Flather, J. H., Lawden Cottage, Newton Road, Cambridge,

Fleeming-Jenkin, Mrs., 12, Campden Hill Square, 11.

Fieming, Rev. H., Chaplain's Quarters, Royal Allitary Academy, Wookench.

Fletcher, Banister F., 29, New Bridge Street, Ludgate Circus, E.C.

Fletcher, E., Charterhous? School, Godalming. Fletcher, H. M., z. Gray's Inn Square, W.C.

Floyd, G. A., Knowie Cottage, Tonoridge.

Fout, F. W. G., D. Litt., City of Landon School, Victoria Embanhment, E.C.

Ford, P. J., 8, Moray Place, Edinburgh,

Forsdyke, Captain E. J. (Conneil), British Museum, W.C.

Forster, E. S., The University, Sheffield.

Forsyth, J. D., 51, Breadhurst Gardens, N. Hampstead, N.W.

Fotheringham, J. K., 6, Blackhall Road, Oxfora.

Fowler, Harold N., Ph.D., Western Reserve University, Cleveland, Ohio, U.S.A.

Fowler, W. Warde, Lincoln College, Oxford.

Frangopoulo, Geo. S., The Limes, Upper Park Road, Broughton Park, Kersal, wor Manchester.

Frazer, Prof., Sir J. G., Lil.D., D.C.L. (V.P.), 1. Brick Court, Middle Temple, E.C. *Freshfield, Donglas W. (Hon. Treasurer), Wych Cross Place, Forest Row, Sussex.

*Freshfield, Edwin, LL D., 31, Old Jewry, E.C.

Fry, Right Hon, Sir Edward, D.C.L., Failand House, Failand, near Bristol.

Fry, F. J., Cricket St. Thomas, Chard.

Fuller, B. Apthorp Gould, Sherborn, Miss., U.S.A.

Furley, J. S., Chernocke House, Winchester. Furneaux, L. R., Rossull School, Fleetwood

Fyte, Theodare (Council), i, Montague Place, Russell Square, W.C.

Gardinez, E. Norman (Council), Epsom College, Survey.

Gardner, Miss Alice, The Old Hall, Newnham College, Cambridge,

*Gardner, Lieut, Ernest A. (V.P.), Tudmerth, Surrey.

1#1 Gardner, Prof. Percy, Litt.D. (V.P.), 12, Contentury Road, Oxford.

Gardner, Samuel, Oakhurst, Harrow-on-the-Hill. Gardner, W. Amory, Groton, Massachusetts, U.S.A.

Carstang, Prof. J., D.St., Institute of Archaeology, Liverpool.

*Gaselee, S., 75, Linden Gardens, Bayematir, W.

Gates, Miss S. M., 15, Vorth Road, Exeler,

Geikie, Sir Archibald, O.M., P.R.S., Sc.D., D.C.L. Shepherd & Down, Haslomers, Survey

Genner, E. Jesus College, Oxford.

(George, W. S., Architect's Office, Raisina, Delhi, India.

"Gerrans, H. T., 22, St. John's Street, Oxford.

Gibson, Mrs. Margaret D., D.D., Lil.D., Castle-bras, Chesterton Road, Cambridge.

Gilles, Dr., P., Master of Emmanuel Callege, Cambridge

Gilkes, Rev. A. H.

Gillespie, C. M., 6, Hollin Lane, Far Headingley, Leads.

Giveen, R. L., Colet Court, Hammersmith Road, W.

Glover, Miss Helen, 9, St. George's Square, S.W.

Godley, A. D. 27, Norham Road, Oxford.

Goligher, W. A., Trimty College, Dublin.

Gomne, A. W., The University, Glasgow

Goodhart, A. M., Eton College, Windsor.

Goodhatt, Sir J. F., Bart., M.D., L.L.D., Holtyr, Cowden, Kent.

Gosford, The Countess of, 24, Hyde Park Gardens, W.

Gow, A., 17a, High Street, Einer.

Gow, Rev. James, Litt.D., 19, Dean's Yard, Westminster, S.W.

Green, G. Bunklund, 21, Dean Terrory, Edinburgh Green, Mrs. J. R., 36, Greevener Road, S.W. Greene, C. H., The School, Great Berkhamsteal . Greene, Herbert W., 4, Stone Buildings, Lincoln Inn, W.C. Greenwell, Rev. W., F.R.S., Durham. Greenwood: L. H. G., Emmanuel College, Cambridge Griffith, Jr. Grammar School, Dolgelly. Griffith, Miss Mary E., Griman, Houth, Co Dublin. Gulbertkian, C. S., 38, Hyde Park Gardens, W. Garney, Miss Amelia, 69, Emmamore Gardens, S.W. Hackforth, R., Signey Survey College, Cambridge. Hadow, W. H., Man Doc., Principal of Armstrong College, Newcastle on-Tone. Haigh, Mrs. E. A. R., Thackersy Cottage, 11, King Street, Kensington Square, W. Haines, C. R., Manugon, Godolming, Hall, Harry Reginald (Council), British Museum, W.C. Hullam, G. H., Ortygia, Harrow-om-the-Hill. Halliday, Prof. W. R., B.Litt., The University, Liverpool. Halshury, The Right Hon, the Earl of, 4, Enniumore Gardens, S. IV. +Hammond, B. E., Trinity College, Cambridge. Hardie, Prof. W. Ross, The University, Edinburgh. Harding G. V., The Fire Upper Basildon, Pangbourne. *Harrison, Ernest, Trinity College, Cambridge *Harrison, Miss J. E., L.L.D., D.Litt. (Council), Newmann College, Cambridge. Harrower, Prof. John, The University, Aberdeen. Hart, Frank, 15, Winchester Road, Hampstead. Hart, Percival, Grove Lodge, Highgate, N. Hartog, David Heaty, Halltol College, Oxford Haslack, F. W., The Wilderness, Southgate, N. Hauser, Dr. Friedrich, Piasca Sform-Cesarini 41, Rome, Italy. Haussoullier, B., 8, Rue Sainte Chale, Paris. *Haverneid, Prof. F. J., LL.D. Winshields, Headington Hill, Oxford. Haver-ham, Right Hon. Lurd, South Hill Park, Beathwell. Hawrs, Charles H., Dartmouth College, Hanner, New Hampshire, U.S.A. Howes, Miss E. P., 13. Sussex Gardens, W. Hayter, Angelo G. K., 39, Netherhall Gardens, Hampstead, N.W. Headlam, Rev. A. C., D.D., Whorlton Hall, Barnard Castle, Durham. Headlam, J. W., c.o Mrz. Headlam, 1, St. Mary's Road, Wimbledon Heard, Rev. W. A., Fettes College, Edinburgh. Heath, Charles H., 224, Hagley Road, Birmingham. Henth, R. M., Mortimer House, Clifton, Bristol. *Heathcote, W. E., Chingford Lodge, N. Walk Terrace, York. Helierden, Rev. C. B., Principal of Brasonous College, Oxford. Helbert, Llonel H., West Downs, Winchester. Henderson, A. E., Westwood Park House, Westwood Park, Forest Hill S.E. Henn, The Hon, Mrs., Revalley Lodge, Burnley. Henry, Prof. R. M., Queen's University, Belfast. Henry, Mrs. Douglas, Westgate, Chichester. Hett, W. S., School House, The College, Brighton. Heywood, Mrs. C. J., Chaseley, Pendieton, Manchester, Hicks F. M., Brackley Lodge, Weybridge. Hill, George F. (V.P.), Britlish Museum, W.C. Hill, Miss R. M., 26, St. George's Square, S.W.

Hillard, Rev. A. E., St. Pane's School, West Kensington, W.

Hiller von Gaertringen, Prof. Friedrich Freihert, Ebereschen Alles 11, Westend, Berlin.

Hirschberg, Dr. Julius, 26, Schifflauerdamm, Berlin, Germany.

Hirst, Miss Gertrode, 5, High Street, Suffron Walden.

Hodge, A. H., 50, Bedford Gardens, Gampden Hill, Kensington, W.

Hodges, Harold W., Royal Namel College, Dartmouth,

Hodgson, F. C., Abhatsford VIIIa, Twickenham.

Hogarth, David G. (V.P.), Ashmolean Museum, Oxford.

Hogarth, Miss M. L. The Red House, Westleton, Suffalk.

Holborn, J. B. S., I. Mayfield Terrace, Edinburgh

Holding, Miss Grace E., 21, Penn Rend Villas, Camden Road, N.W.

Hopkins, R. V. Nind, 100, Hampitiad Way, N.W.

Hopkinson, Rev. J. H., 18. Haverholt Road, Coine, Lanes.

Hoppin, J. C., Courtlands, Penelvet Centre, Conn., U.S.A.

Hort, Sir Arthur F., Bart., Newlands, Harrage on the Hill.

Hose, H. F., Dulmick College, Dulwich, S.E.

Hotson, J. E. B., LC.S., No Messes. Grindley & Co., P.O. Box 98. Bombay.

House, H. H., The College, Malvern How, W. W., Merton College, Oxford.

Howard de Walden, The Right Hon Lord, Scaford House, Helgrave Square, S. W.

Howards, Sir Henry H., K.C.I.E., F.R.S., 45, Lethan Gardens, S.W.

Huddart, Mrs., Culwells, Haywards Heath

Hügel, Baron Friedrich von. 13, Vicarage Gate, Kensington, W.

Hughes, Reginald, D.C.L., 46, Companie Gardens, South Hampstond, N.W.

Hunt, A. S., D.Litt., Queen's College, Oxford

Hunter, L. W., New College, Oxford.

Hurchinson, Sit J. T., Lorlon Hall, Cumberland.

Hutchinson, Miss Doris, St. Peter's Hill, Grantham.

Hitton, Miss C. A. (Council), 49, Draylon Gardons, S.W.

†Hyde, James H., 18, Rus Adolphe-Voon, Paris.

Image, Prof. Selwyn, 20; Filterny Street, IV.

Jackson, Prof. Henry, O.M., Litt.D. (V.P.), Trinity College, Cambridge.

Plames, A. G., 58, National Gate, 5, W.

*James, The Rev. H. A. D.D., Provident of St. John's Callege, Oxford.

James, H. R., Presidency College, Calcutta, India.

James, Miss L., Wyss Wood, Konley, Surrev.

James, Lionel, School House, Monmouth.

Jumes, Montagao Rhodes, Litt.D., Proport of King's Callege, Cambridge.

Jameson, Monsieur R., 4. Asonio Velasques, Paris.

Janvier, Mrs. Thomas A., 222, West 59th Street, New York, U.S.A.

+Jux-Blake, Miss, Girton Callege, Cambridge.

Johnson, Rev. Gifford H., Feltham, T., Park Law, Crondon.

Johnson, Mrs. K. F. S., Feltham, 97, Park Lane, Greydon.

Johnson, Miss Lorna A., Woodleigh, Albrincham.

Jonas, Maurice, 1, Wildwood Road, Golders Green, N.W.

Jones, Henry L., Willaston School, Nantwick,

*Jones, H. Stimit (V.P.), Glan-y Mar, Saundersfood, Pembrobethirz,

*Jones, Ronald P . 208, Colcherne Court. South Kensington.

Joseph, H. W. B., New College, Oxford.

Kalmweller, Miss Bettim, 6. Norham Gardens, Caford,

Karo, George, t. Rue Philias, Atheus, Greece,

Keith, Prof. A. Berriedale, D.Litt., D.C.L., 122, Polisourth Terrace, Edinburgh.

Kennedy, J., 51, Pulace Cardon Terrors, Camples Hill, W.

Kensington Miss Frances, 143, Glowester Terrace, Hyde Park, W.

Kenyon, Sir Frederic, K.C.B., D.Latt. (V.P.), British Museum, W.C.

Ker, Prof. W. P., 93, Gower Street, W.C.

Keiter, Dr. J., Grande Boisseere, 62, Route de Chène, Genève.

King, J. E., Clifton College, Bristol.

*King, Mrs. Wilson, 19, Highfield Road, Edgbarloy, Birminghow Kipling, Mrs., Michleton, Queens Drive, Mondey Hill, Liverpool. Kuight, Miss C. M., v. Nazzington Road, Hampitead, N. 15.

Litather, M. L. W., Queen's University, Belfost. Lamb, Miss D., 5, Cambridge Terruse, Reus *Lamb, W. R. M., 5. Cambridge Terrace, Kew.

Lane, Mrs. Charles T., Dangstein, Petersheld.

*Lansdawne, The Most Hon. the Marquess of, K.G., G.C.S.E., G.C.L.E., G.C.M.G., Bowood, Caine, Wills.

Lantour, Miss de, Sweffe, Huxled, Sussex.

La Touche, Sir James Digges, K.C.S.L. 13, Kaylar Road, Dublin,

Laurie George E., Royal Academical Institute, Belfast.

Lawson, The Hen Mrs., 78, South Audity Street, S.W.

Liuson, J. C., Pembroka College, Cambridge. Leaf, Herbert, The Green, Martharough,

† Lenf, Walter, Liit.D., D.Litt. (President), 6, Susser Place, Regent's Park, N.W.

Leeds, Har Grace, the Duchess of, 11, Grastiener Cressent, S.W.

Leeper, Alexander, Warden of Trinity College, Melbourne.

Leepur, A. W. A., British Museum, W.C. Legge, F. 6, Gray's Inn Square, W.C.

Lehmann-Haupt, Prof. C. F.

Leigh, W. Austen, Hartfield, Rocksupton, S. W. Lemon, Miss E., 35, Lauriston Place, Edinburgh.

Lethaby, Prof. W. R., 111, Inverses Torons, W.

Letrs, Malcolm, 8, Kartlett's Hulldings, Hollorn Circus, E.C.

Lewis, Harry R., 11, Upper Phillimore Gardens, W.

Levis, G. R., C. Adminite of J. A. Greer, Rhodes Buildings, St. George's Street, Cape Town, Cape Colons.

Lewis, L. W. P., 3. Exhalt Assume, Guinley, near Leads.

*Lewin, Mrs. Agnes S., Phil. D., D.D., L.L.D., Cuttle-braz, Chesterion Road, Cambridge.

Lincoln, Right Rev. the Lord Bishop of, Old Paluce, Lincoln:

Lincoln, Very Rev. Dean of, The Dennery, Eincoln,

Limilley, Mis: Julia, 74. Shaoter's Hill Road, Blackheath, S.E.

Landsell, Miss Ance, Newnham College, Cambridge. Livingstone, R. W., Entpus Christi College, Oxford.

Liewellyn, Raymond.

Lloyd, Miss A. M., Caythorte Hall, Grantham.

tLock, Rev. W., D.D., Warden of Kelle College, Oxford.

thoeb, James, Konradiirum 14. Munich, Germany

Thomgman, Miss Mary, 6), Landowne Road, Holland Park, W.

Larimer, Miss H. L. Somerville College, Oxford.

Lowe, Miss D., Hinton St. George, Crewberne, Somersel.

Lowry, C. The School House, Tombridge,

Lumiden, Mrs. Warren College, Cranleigh, Survey.

Jann, Sir Henry S., M.D., Oldfield House, Harrow-on-the-Hill. Lunn, W. Holdsworth, Allan Water Hotel, Bridge of Allan, N.B.

Lymelton, Hon, and Rev. E. Eton College, Windsor,

*Mucan, R. W. Master of University College, Oxford.

McCann, Rev. Justin, C.S.B., Authleforth Abbey, Oswoldkirk, Vork.

McCutcheon, Miss K. H., Lady Margaret Hall, Oxford.

Macdonald, George, L.L.D., Jr. Learmonth Gurdens, Edinburgh.

Macdonald, Mass Louisa, Women's College, Sydney University, Sydney, N.S. H.

McDonell, H. C., Twyford School, Twyford, new Winchester,

Macdonell, P. J., Office of Public Prosecutor, Levingstone, N.W. Rhodesid.

Mc Dougall, Miss Eleanor, Westfield College, Hampstead, N. W.

McDowall, Rev. C. R. L., King's School, Canterbury.

Macduff, Mrs. E. A., Sesame, Club, 27. Dover Street, W.

MacEwen, Rev. Prof. Alex. Robertson, 5, Doune Terrace, Edinburgh,

Macgregor, J. M., Bedford College, Regents Park, N.W.

McIntyre, Rev. P. S., 41, North Parade, Grantham.

Maciver, D. Randall, 131, East 66th Street, New York, U.S.A.

Mackeneie, Duncan.

Machenose, James J., 61, St. Vincent Street, Glasgow.

Macmillan, Mrs. Alexander, 31, Greevenor Road, S.W.

*Macmillan, George A., D.Litt. (Hon. Ser.), St. Martin's Street, W.C.

Macmillim, Mrs. George A., 27, Queen's Gale Gardens, S.W.

Macmillan, Maurice, 32, Carlogon Place, S.W.

Macmillan, Capmin W. L. F., 27, Queen's Gate Gardens, S.W.

*Muchaghten, Hugh, Eton College, Windson.

*Magrath, Rev. J. R., Provost of Queen's College, Oxford.

*Milhaffy, Rev. J. P., D.D., D.C.L., C.V.O., Provost of Trinity College, Dublin.

Mair, Prof. A. W., The University, Edinburgh.

*Malim, F. B., The School, Halleybury

Marchant, E. C., Lincoln College, Oxford.

*Marindin, G. E., Hammondswood, Frensham, Farnham,

*Marguand, Prof. Alfan, Princeton College, New Jersey, U.S.A.

Marriage, Miss E. M., Longfold House, near Farnham, Surrey.

Marghall, Miss, Oukhill, Stoke-on-Trent.

Marshall, Erederick H., 144, Abbey Road, N.W.

Marshall, Sir J. H., C.I.E., Lin D., Director General of Archaeology, Simla, India.

Marshall, Prof. J. W., University College of Wales, Aberystwyth.

Marshall, R., 31. The Waldrons, Croydon.

Martin, Charles B., Box 12, Oberlin, Ohio, U.S.A.

+Martin, Sie R. B., Bart, 10, Hill Street, Mayfair, W.

Martindale, Rev. C., 114, Mount Street, W.

*Martyn, Edward, Tillyra Cartle, Ardrahan, County Galway,

Massy, Lieut.-Colonel P. H. H., United Native Citib, Pall Mail, S.W.

Matheson, P. E., I. Satelle Ruad, Oxford.

Maugham, A. W., The Wick, Brighton.

Mayrogordato, J., 5. Linnell Class, Hampitead Carden Suburo, N.W.

Maymondato, J. J., b. Palmeira Court, Hove, Sussex.

Mayroguidato, T. M., 62, Westbourne Terrace, Hyde Park, W.

Mayor, H. B., Clifton College, Bristol.

Mayor, Rev. Prof. Joseph B., Queengute House, Kingston Hill, Surrey,

Mayer, R. J. G., Beard of Education, Whilehall, S.W.

Measures, A. E., King Edward VI. School, Birmingham.

Medley, R.P., Felsted School, Essex.

Megaw, M. G., The Welkin, Earthourns.

Meiklejohn, Lady, 10, Euton Torrate, 5, W.

Merk, F. H., Christ's Hospital, West Horsham.

Merry, Rev. W. W., Rector of Lincoln College, Oxford.

Metaxia Spiro, 98, Westbourne Torrice, W.

*Miers, Principal Sir H. A., V.K.S., Herch Fierr, Cromwell Range, Fullowfield, Man-

Minhel, Prof. Ch., 4x, drenur Blonden, Lilge, Belgium.

Millar, J. H., 10, Abercramby Place, Edinburgh, Miller, William, 36, Via Palestro, Rome, Italy. Milliet, P., 95, Boulevard St. Michel, Paris Millington, Miss M. V. 47, Peak Hill, Sydenliam, S.E. Milne, J. Grafton, Bankside, Goldhill, Farnham, Surrey. Miliner, Viscount, G.C.B., Brook's Club, St. James Street, S. W. Miner, Miss Julia, 18, Sussex Square, Hyde Park, W. Minns, Ellis H. Commil, Pembrotz College, Cambridge. Mitchell, J. Malcolm, East London College, Mile End Road, E. Mitchell, Mrs. C. W., Jesmond Towers, Newcastle on Tyne. Mond, Rt. Hon. Sir Alfred, Bart., M.P., 35, Lemnder Square, S.W. Mond, Mrs. E., 22, Hyde Park Square, W. t Mond, Mrs. Frida, The Poplar, 20, Avenue R. ad, Regent v Park, N. B. Mond, Rubert, Comb. Bank, near Sevennaks. Monfries, C. B. S., Larchfield School, Helensbrugh, near Glasgow. Monfries, J. Deumsoond C., 343, Upper Richmond Road, S.W. Morrison, Walter, 77, Cremtaell Road, 5, W. Moss, The Rev. Prehendary H. W., Highfield Park, nour Oxford. Mosley, H. W., The White House, Huslemers. Muirhead, L., Haseley Court, Wallingford, tMunro, J. A. R., Lincoln College, Oxford. † Murphy, Rev. J. M., Milltonn Park, Dublin Marray, Prof. G. G. A. (V.P.), 82, Woodstock Road, Oxford. Musson, Miss Caroline, Maint Pleasant, Magdaten Hill, Winchester †*Myers, Ernest (Council), Beackenside, Chielehurst, Kent. tMyres, Prof. J. Linton, 151, Bundary Road, Oxford. *Naura, Rev. J. Arbothmot, Merchant Taylors School, E.C. Needham, Miss Helim R., Enville House, Green Walk, Bourdon, Chethire. Negroponta, J. A., 78, George Street, Manchester. Newman, W. L., Litt.D., D.Litt., Pitterille Lawn, Chellenham, Newton, The Lord, by Belgrane Square, 5.4V. Newton, Miss Charlotte M., 18, Priory Rand, Bedford Park, W. Nosck, Prof. Ferdinand, Archaeolog, Institut, Wilhelmstrasse, No. 9, Tubingen. Numico, C. G., c.o Mestrs. Ralii Broz., Peter Street, Manchester. Norman-Roth; Mrs. 4. College Court, Hammermith, W. Norwood, Cyril, The Grammar School, Bristol. Norwood, Prof. G., 65, Ninian Road, Routh Park, Eardiff. Oakesmith, John, D.Litt., Montrow, Stainer Roan, Bedfont, Middlesex. Odgers, Rev. J. Edwin D.D., 9. Marsion Ferry Read, Oxford. Ochler, Miss Elisabeth, 5t. Martherough Mannons, Cannon Hill, Hampstead, N.W. Ogden, Mrs. Percy, Fregnal End, Hampstead, N. IV. Oliphant, Prof. Samuel Grant, tiente City College, George City, Pennsylvania, U.S.A. Oppe, A. P., 18, Chepur Gardens, Chelsia, S. H. Oppenheimer, H., q. Kennington Palues Gardens, W. Ormerod, H. A., The Unit visity, Laverpool Orpen, Rev. T. H., Mark Act, Addiger, Direking. Owen, A. S., Rible College, Oxford. Owen-Markennie, Ludy, 6, Christian Street, S.W. Page, T. E. Woodcote, Godalming. Pallin, Alexander, Tator, Algourth Drive, Levergeni. Parker, Myss M. E., Princer Helma College, Kaling, W. Parmiter, Rev. S. C., West Bank, Uppingham. Parry, Rev. O. H., All Hallows Clercy House, East India Docht, E. Purry, Rev. R. St. J., Trinity College, Cambridge.

Partington, John B., 45, Gloucester Terrice, W.

Paterson, Dr. W. B., I. Aigharth Hall Road, Aigharth, Liverpool.

†Paton, James Morton, 302, Strathcona Hall, Charles River Road, Combridge, Mass., U.S.A.

Paton, W. R., Vathy, Somos.

Pears, Sir Edwin.

Peckover of Wisboch, Baron, Wisbock, Cambs,

†Peckover, The Hon. Alexandrina, Bank House, Wisborn. Pember, F. W., Warden of All Sould Callege, Oxford.

†Penrose, Miss Emily, Somerville College, Oxford.

*tPercival, F. W., 1, Chesham Street, S.W.

Perry, Peof. Edward Delavan, Columbia University, New York City, U.S.A.

Pesel, Miss Laura, Oak House, Bradford

Petrocochino, D. P., 25, Odes, Timelounius, Athens.

Petrocokino, Ambrose, Thames Collage, Panghourne. Philips, Mrs. Hurbert. Sutton Oaks, Maccleyfield.

Phillimore, Prof. J. S., The University, Glagow.

Phillips, J. G., Co Mesers. Arthur Hunt & Money, 24. The Haymarket, S. W.

Picatel, George, 2 bis, Rue Renouville, Paris. Pickering, T. E., The Schools, Shrewshury.

Plater, Rev. Charles, S.J., St. Mary's Hall, Stonyhurst, Blackhurn.

*Platt, Peof. Arthur, 5, Chester Terrace, Region's Park, N.W.

Podmorn, G. C., Charney Hall, Grunge over Sands.

Pollock, The Right Hop. Sir Frederick, Bart., 21, Hyde Park Place, W.

Pape Mrs. G. H. 60. Ranbury Road, Oxford.

Postgate, Prof. J. P., Litt.D., (5, Linnet Lane, Liverpool.

Potter, Alan, Grey Gables, Boreham Wood, Herts.

Powell, John U., St. John's College, Oxford

Poynter, Sir Edward J., Bart, Litt.D., D.C.L., F.R.A., 70, Addison Road, S.W.

Price, Miss Mubel, The Judges' Lodgings, Oxford.

Prickard, A. O., Shotower, Pleet R.S.O., Hants.

Pryce, F. N., Hritish Museum, W.C.

*Pryor, Francis R., Woodfield, Hatfield, Herts.

Purser, Miss Olive. 28, Kempelord Gardens, Earl's Court, S. W.

Pyddoke, Miss Mary, 21, Grange Park, Kaling, W. Quibell, Mrs. Annie A., Girch Museum, Egypt.

†Rackham, H., Christ's College, Cambridge.

Radeliffe, W. W., Fonthill, East Grinstead, Susarv.

Radford, Miss. Belgian Colony, The tirange, Littleport Read, Ely.

Raleigh, Miss Katherine A., b. Park Rand, Unbridge.

*Ralli, Pandell, 17, Relgrave Square, S.W.

†Ralli, Mrs. Stephen A., St. Catherine's Lodge, Hove, Sussex.

Ramsay, A. B., Eton College, Windsor.

Ramsay, Prof. G. C., LL.D., Lut.D., 19, Ontlow Gardens, S.W.

*Rainsay, Prof. Sir W. M., D.C.L., Litt.D. (V.P.), 41, Braid Avenue, Edinburgh

Rayen, H. M., M.R.C.S., Barfield House, Broadstairs.

Rawlins, F. H., Eton College, Window.

Reeves, Hon. William Pember, 43; Cornwall Gardens, S.W.

Reichel, Sir Harry R., Garthermen, Bangor, North Wales.

Reid, Prof. J. S., Litt.D., Carus College, Cambridge.

*Rendall, Rev. G. H., Litt. D., Dedham House, Dedham, Colchester.

Rendall, Montague, The College, Winchester.

Rennie, W., The University, Glasgow.

Richamia, Rev. G. C. Ortel Gallege, Oxford. Richards, F., Ainground School, Bath. Richards, H. P., Wadham College, Oxford. Richardson, Miss A. W., Westfield College, Hampstead, N. W. Richmond, Prof. O. L., 25, Cirdiff Runk, I landoff. Richmund, Sir W. B., K.C.B., D.C.L., R.A. Brew Lodge, West End, Hammer mith, W. Richter, Miss Gisela, Litt D., Metropolitics Museum of Art, New York, U.S.A. Ridgeway, Frof. W. (V.P.), Fon Dilton, Cambridge. Ridley, Miss E. E. A., 24, Bartholomew Road, N. W. Ridley, Sir Edward, 48, Lennas Gardons, S.W. Rigg, Herbert A., Wallburst Manor, Confeld, Horchan. Riley, W. E., County Hall, Spring Gardens, S. W. Roberts, J. Stingsby, 3, Powis Villas, Brighton. Roberta, Principal T. F., Sherborne House, Aberystuyth. Roberts, Professor W. Rhys, LL.D., The University, Leeds, Robertson, D. S. (Conneil), Trinity College, Cambridge, Robinson, C. E., Culvers Closs, Winchester. Robinson, Edward, Metropolitan Museum of Act, New York, U.S.A. Robinson, E. S. G. British Museum, W.C. Robinson, W. S., Courtfield, West Hill, Putner Heath. Rodd, M. E. Sir Rennell, G.C.M G., British Embassy, Rome. Romanos, H. E. Athos, Greek Legation, Paris. Rose, H. J., \$40. Lorne Crescent, Montrest, Canada *Rosebery, The Right Hon, the Rarl of, K.G., 38, Berbeley Square, W. Rotton, Sir J. F., Lockwood, Frith Hill, Goddming, Survey. *Rouse, W. H. D., Litt. D., Globe Road, Cambridge Ruben, Paul, 34, Alte Rabenstrasse, Hamburg, Germany. *Ryle, The Right Rev. Bishop, C.V.O., The Dealiery, Westminster, S.W. Sachs, Mrs. Gustare, 26, Mariborough Hill, N.W. St. Liwrence, T. J. E. Gaisford, Hmoth Castle, Dublin. Saligriliwaite, Colonel, Pasture House, Northallerton, Yorkshire, Sanday, Rev. Prof. W. D.D., Christ Church, Caford. Sunders, Miss A. F. E., The High School, Camaen Park, Tunbridge Wells. Sanderson, F. W., The School, Oundle, Northamptonchire. Sands, P. C., Packlington School, East Verki. *Sandys, Sir John, Litt.D. (V.P.), St. John's House, Grange Road, Cambridge. Sandys, Lady, St. John's House, Grange Road, Cambridge, Sawyer, Rev. H. A. P., School House, St. Fiers, Cumberland. **Sayce, Rev. Prof. A. H., L.L.D. (V.P.), 8, Chalmers Crescent, Edinburgh. †Schrumanga, A. P. †Scarth, Miss E. M., Turleigh Mill, Bradford on Avon Scheurleur, C. W. Linnsingh, Vinkenpark 16, The Hague. Schiller, Miss. 37, Upper Brook Street, W. Schrader, Prof. H., Allegane 39, Wien IV. Schuster, Ernest, 12, Harrington Gardens, S. W. Scouloudi, Stephanos, Athens, Greece, Scut, CA., British School, Athens. Seager, Richard B., cje Baring Bres. and Co., h. Bishopopute Street Within, E.C. Seille, Rev. E. G., Carb Grammar School, Cork. Seebolim, Hugh, Poynder's End, near Hitchin. Seltman, E. J., Kinghoe, Great Berkhamsted, Herts. †Selwyn, Rev. E. C., D.D., Undershaw, Hindhead, Surrey

Selwyn, Rev. E. G., Warden of Radley, Berke. †Sharpe, Miss Catharine, Stoneyeroft, Elitree, Hertz. Shear, Mrs., 468, Riverside Drive, New York, U.S.A.

Shearme, J. S., Rapton, Burton on Ivent.

Sheepskanks, A. C., Eton College, Windton.

Sheppard, J. T., King's College, Cambridge.

Shewan, Alexander, Sechof, St. Andrews, Fife.

Shields, Mrs., American Art Studente Club, 4, Kur de Cheureuse, Paris.

Shipley, A.E., F.R.S., Master of Christ's Callege, Cambridge. Shipley, H. S., C.M.G., H. R.M. Consulate, Tabris, Persia.

Shoobridge, Leonard, Proprieti St. François, Gairant, Nice.

Shove, Miss E., 30, Vock Street Chambers, Reyanaton Square, W.

Sidgwick, Arthur, Carpus Christi Callege, Oxford.

Silicox, Miss, St. Feltz School, Southwold.

Sills, H. H., Great Shelford, Cambridge. +Sing, J. M., The College, Winekester.

Six, J., Heeringracht 511, Amsterdam. Skrine, Rev. J. H., Plannige, St. Peter's in the Entl. Oxford.

Slater, Howard, M.D. St Budeaux, Deventores, Sloam, Miss Eleanor, 13, Welford Road, Leicester.

Stoman, H. N. P., Sydney Grammar School, Sydney, N.S. W.

*! Smith, A. Hamilton V.P., Firstish Stuceum, W.L. Smith, A. Y., Larette School, Musselburgh, N.B.

Smith, Sir Cecil Harcourt, LL.D. (V.P.), 62, Rutland Gate, S.W.

Smith, Sir H. Babington, K.C.B., C.S.L., (2). St. James Court, Buckingham Gate, S. W.

Smith, James, The Knoll, Blundellands, near Liverpool.

Smith, Nowell, School House, Sherborne, Dursel

Smith, R. Elsey, Rasgarth, Walden Road, Horsell, Waking.

Smith, Sharwood L., The School Hause, Newbury.

Smith, William H., 63, Wall Street, New York.

Smith-Pearse, Rev. T. N. H., Cartle Street, Launceston, Cornwall.

Smyly, Prof. J. Co. Trinity College, Duolin. Snow, L C., St. John's College, Oxford

Somerset, Arthur, Castle Goring, Worthing

Sonnenschein, Prof. E. A. 30, Calthorfie Road, Edgboston, Birmingham.

Southwark, Right Rev. Lord Bishop of Bishop's House, Kennington Park, S.E.

Sowels, L., The Rackery, Thelford, Norfolk.

Spearing, H. G., 5, Hormay Lane Gardens, Highgate, N. Spiers, R. Phene, 21, Bernard Street, Russell Square, W.C.

Spooner, Rev. W. A., Worden of New College, Oxford.

Stainton, J. A., t. Wyntham Place, Beyanston Square, W.

Starkie, Rt. Hon. W. J. M., Litt.D., Office of National Education, Marlborough Street,

Stawell, Miss F. Melian, 33. Laubroke Square, Notting Hill Gate, W.

Steel, D., Roycot, Stansfed, Essex.

+Steel-Maitland, A. D., M.P., 72, Cadogan Sq., S.W.

Steele, Dr., 35, Viale Milton, Florence.

Steele-Hutton, Miss E. P., 20, Sedgoners Avenue, East Finchley, N.

Stevenson, Miss E. F., 24. Brandling Park, Newcastle-on-Tyne.

Stevenson, G. H., University College, Oxford.

Stewart, Prof. J. A., Christ Church, Oxford.

Stocks, J. L., St. John's College, Oxford.

Stogdon, Rev. Edgar, Aldenbam Vicarage, Wattord.

Stogdon, J., Mount Pleasant, London Road, Harrow-on-the-Hill.

Stone, E. W., Eton College, Windsor

Stout, George F., Craigard, St. Amircan.

Strachan-Davidson, J. L., Master of Baltiol College, Oxford.

Strangways, L. R., 6, Grasvener Gardens, Muswell Hill, N.

Streatfeild, Mrs., 22, Park Street, W.

Strong, Mrs. S. Arthur, LL. D., Litt. D. (Council), Brittsk School, Palazzo Odescalchi, Rome.

Strathers, Sir John, K.C.H., 23, Slaame Gardens, S.W.

Swithinbank, Harold, co J. Holley, Denham Court, Estate Office, Denham

†Sykes, Lieut-Col. Sir Percy, K.C. L.E., C.M.G., Udnipur, via Bombiy,

Symmuds, Rev. H. H., Rugby School, Rughy.

Tamoock, Captain A. (31st Punjubis, Indian Army), Parachinar, Kurram Valley, Via Kohat, N.W.F.P. India.

Tarbell, Prof. F. B., University of Chicago, Chicago, Ill., U.S.A.

Tam, W. W. Mountgrald, Dingwell, N.B.

Tarrant, Miss D., Bedford College, Regent's Park, N.W.

Tatton, R. G., 2, Somer Place, W.

Taylor, Miss M. E. J., Royal Holloway College, Egham.

Taylor, Mrs. L. F. Watson, 19, The Boltons, S.W. Temple, Rev. W., St. James Rectory, Picsadilly, W.

Thackeray, H. St. John, o. North Park, Gernards Cross, Hucks.

Thiselton-Dyer, Sir William Turner, K.C.M.G., F.R.S., The Ferns, Wilcombi, Gloncoster.

Thomas, W. H., The Ness, Roman Road, Lintherps, Middlesbrough

Thomas-Stanford, Charles, Preston Manor, Brighton.

*Thompson, Miss Anna Boynton, Thayer Academy, South Braintree, Mass., U.S.A.

Thompson, F. E. 16, Primross Hill Read, N.W.

Thompson, Sir Herbert, Bart., 9, Kentington Park Gardens, 5.W.

Thompson, J., 40, Harwart Street, Dublin. Thompson, Maurice, Garthlands, Reigate.

Thomson, F. C., 5. Northumberland Street, Edinburgh.

Tiddy, R. J. E., University College, Oxford.

Tidswell, W. J., Kingswood School, Rath.

Tillyard, H. J. W., Fordfield, Cambridge.

*Tod, Lieut. Marcus N., Oriel College, Oxford. Toynboo, Arnold Jeseph, Bulliol Cullege, Oxford.

*†Tour, Rev. H. F., 18, Norham Gardens, Oxford.

Tudeer, Dr. Emil, Helsingforn, Finland.

*Turnbull, Mrs. Peveril, Sandy Brook Hall, Ashbourne.

Turner, Prof. H. H., F.R.S., University Observatory, Oxford.

Tylor, C. H., Gresham Villas, Holt, Norfolk.

Tylor, Sir E. B., D.C.L., F.R.S., Landen, Wellington, Somersel.

Underhill, C. E., Magdalen College, Oxford.

Upcott, Rev. Dr., Christ's Horpital, West Horsham.

Ure, Prof. Percy N. (Council). University College, Reading.

+Vaughan, E. L., Eton College, Windsor.

Vaughan, W. W., Wellington College, Berks.

Verrall, Mrs. A. W., Selwyn Gardens, Cambridge.

tVirtue-Tebbs, Miss II., 36, Kennington Park Road, IV.

Viti de Marco, Marchesa di, Palazzo Orsini, Monte Savello, Rome.

Vlanto, Michael P., 12, Allèes des Capucines, Murseilles.

Vysoký, Prof. Dr. Igum, K.K. Böhmische Universität, Prag, Rohemia.

Wace, A. J. B. (Council), British School, Athens, Greece,

†Wackernagel, Prof. Jacob, The University, Göttingen, Germany,

Wadsworth, S. A., 34, Fellows Road, Hampstead, N.W.

†Wagner, Henry, 13, Half Moon Street, W.

†Waldstein, Sir Charles, Ph.D., Liu.D., L.H.D. (V.P.), Newton Hall, mar Cambridge.
Walford, L., Borough of Halborn Council Offices, 197, High Halborn, W.C.

Walker, Missell. L., Regent Lodge, Headingley, Leeds.

Walker, Rev. F. M., Queen's College, Oxford,

Walker, Rev. R. J., Little Halland House, Kensington, W.

Walters, Henry Beauchamp (Council), British Museum, W.C.

Walters, Prof. W. C. Flamstead (Council), Limen, Millon Park, Gerrards Cross, Bucks.

Ward, Arnold S., M.P., 25, Greevener Place, S.W.

*Ward. Sir A. W., Litt.D., Master of Peterhouse, Cambridge.

Ward, W. Henry, 2, Bedford Square, W.C.

Warner, Rev. Wm., o, Crick Road, Oxford.

+Warre, Rev. Edmond, D.D., D.C.L., C.B., Provest of Elen College, Windsor.

Warren, E. P., Lowes House, Lewes, Sussex.

Warren, Mrs. Fiske, 8, Mount Vernon Place, Boston, U.S.A.

Warren, Sir Herbert, K.C.V.O., D.C.L., President of Magdalen College, Oxford

Waterfield, Rev. R., The Principal's House, Chellenhum,

Waterhouse, Edwin, Feldemore, mar Dorking.

Weatherhead, Robert W., H.M.S. Superb, Home Fleet, Portland.

Webb. C. C. J., Magdalen College, Oxford.

Webb, P. G. L., 12, Lancaster Gate Terrore, W.

Weber, F. P., M.D., 13. Harley Street, W.

Weber, Sir Hermann, M.D., 10, Gressenor Street, W.

Webster, Erwin Wentworth, Wadham College, Oxford.

Woodd, N., King's Cottege, Combridge.

Weenly, W. N., School House, Sedbergh, Yorkshire.

Weir, Robert Weir Schaltt, 14, Gray's Inn Square, W.C.

Weld-Blundell, Herbert, Brook's Club. St. James Street, S.W.

Welldon, The Right Rev. Bishop, The Deanery, Manchester,

Wells, C. M., Eton College, Windror.

Wells, L. Wadham College, Oxford.

Welsh, Miss S. M., Siegfried Strasse 6/111, Manich.

Whatley, N. Hertford College, Oxford.

Wheeler, Prof. James R., Ph.D., Columbia College, New York City, U.S.A.

Whibley, Leonard. Pembroke College, Cambridge.

White, Han, Mrs. A. D., Cornell University, Ithaca, U.S.A.

Whitehead, R. R., Woodstock, Ulster Co., N.V., U.S.A.

Whitworth, A. W., Elon College, Windsor,

Wilford, Miss D., 28, Knighton Guarch Road, Lewester.

William Rev. George, 36, Trinity College, Dublin.

Wilkinson, Herbert, to, Orma Square, 11

Williams, Prof. T. Hudson University College, Bangar

Willis, J. Armine, c)c R. C. R. Willis, Esq., 4, Grange Park, Ealing, W.

Willis, Miss L. M., 70, Addison Gardens, W.

Wilson, Major H. C. B., Crofton Hall, Crofton, near Wakefield.

Wilson, Miss, Lalcham, Forthourne.

Wilson, T. I. W., Repton, Burton on Trent.

Wood, R. Stanford, 56. St. John's Park, Upper Holloway, N.

Wood, Rev. W. S., Ufford Rectory, Stamford.

Woodhouse, Prof. W. J., The University, Sydney, N.S.W.

Woodward, A. M. (Council), The University, Leeds.

Woodward, Prof. W. H., Cranksbury Flurst, Farnham, Surrey.

Woolley, C. L. Old Riffhams, Danbury, Essex.

Wright, F. A., L.L. D. Moss Hall Lodge, Nether Street, North Finchley, N.

Wyndham, Rev. Francis M., St. Mary of the Angels, Westmoreland Road, Bayswater, W.

Wyndham, Him. Margaret, 12, Great Stankope Street, W.

Wynne-Finch, Miss Helen, Chapel House, Crathorne, Yurm, Yorkshire.

†Wyse, W., Halford, Shipston-on-Stour.

Yeames, A. H. S., United University Club, Pall Mall East, S.W.
Yorke, V. W., Pontifer House, Shoc Lane, E.C.
Yuung, George M., 99, St. George's Square, S.W.
†Yule, Miss Amy F., Tarradale House, Revisities, Scotland.
Zimmern, A. E. (Conneil), 14, Great Russell Mansions, Great Russell Speed, W.C.
†Zochoma, G. B., Maunifands, Enville Road, Bowdon, Cheshire.

Zochoma, P. B., Farriawn, Winton Road, Secolon, Cheshire.

STUDENT ASSOCIATES

Astley, Miss M., u. Willen Street Grantone Place, S. W. Bere, R. de, Sutton, Surrey.

LIST OF LIBRARIES SUBSCRIBING FOR THE JOURNAL OF HELLENIC STUDIES.

The privilege of abutining the Journal of Hilleni, Studies on the same terms as those emptyed by members of the Society is estanded to Libraries. Application should be made to the Secretary, to Biocomplany Square, W.C.

A Libraries chaining capter under the Copyright Act.

GREAT BRITAIN AND IRELAND

Aberdeen. The University Library.

Aberystwyth, The University College of Wales

Birmingham, The Central Free Library, Rateliffe Place, Riveringham (A. Capel Shaw, Esq.).

The University of Humingham.

Bradford, The Free Library and Art Museum, Darley Street, Bridford

The Girls' Grammar School Miss Falding .

Bristol, The University Library, Bristol.

Clifton, The Library of Clifton College Clifton, Bristol.

Cambridge, The Library of the Meseum of Classical Archaeology.

The Girton College Library.
The Library of King's College.
The Library of St. John's College.

The Library of St. John's College The Library of Trinity College

The University Library.

Cardiff, The University College of South Wales, Cardiff

Charterhouse, The Library of Charterhouse School, Guinlming,

Dublin, The King's Inns Library.

.. The National Library of Ireland. ... The National Museum of Ireland.

" The Royal Irish Academy.
" The Library of Trinity College.

Durham, The University Library, +Edinburgh, The Advocates Library.

The Edinburgh College of Art, Lauritian Play, Edinburgh.

Egham, The Royal Holloway College, Egham, Surrey.

Eton, The College Library, Eton College, Windsor.

The Boys' Library, Eton College, Windsor.

Galway, The University Library, Glasgow, The University Library.

Harrow, The School Library. Harrow, N.W.

Hull, The Hull Public Libraries.

Leeds, The Leeds Library, Commercial Street, Leeds.

The Public Library.

Liverpool. The Public Library.

London, The Society of Antiquaries, Burlington House, W.

The Athenaeum Club, Pall Mall, S.W.

" The British Museum, W.C.

The Department of Greek and Roman Antiquities, British Museum, W.C.

The Burlington Fine Arts Club, Sarils Row, W.
 The Library of King's College, Steamt, W.C.
 The London Library, St. January, Sapare, S.W.

The Oxford and Cambridge Club, c/n Messra, Harrison & Sons, 45, Pall Mall,

" The Reform Club, Pall Mall, S.W.

The Royal Insutation, Albemarie Street, IV.

The Sion College Library, Fictoria Embandment, F.C.
The Library of St. Paul's School, West Kensington, IV.

London, The Library, Westminster School, S.W. Manchester, The Library of the Grammar School.

The John Rylands Library, Victoria University,

Mirfield, Library of the House of the Resurrentian.

Newcastle-upon-Tyne, The Public Library, New Hridge Street, Newcastle-upon-Tym, Northampton School (F. Reynolds), Northampton.

Oxford, The Library of All Sonis College.

. The Library of the Ashmoleso Museum (Department of Classical Acchaeology).

.. The Library of Balliot College,

The Bodiesan Library.

" The Library of Christ Church,

. The Senior Library, Corpus Christi College,

"The Library of Exeter College,
"Meyrick Library, Jesus College,
The Library of Keble College,
The Library of Lincoln College,

"The Library of New College.
"The Library of Oriel College.
"The Library of Queen's College.
"The Library of St. John's College.
"The Library of Somerville College.

The Library of Trinity College.

" The Union Society.

Plymouth, The Free Library, Phymouth.

Preston, The Public Library and Maseum, Preston.

Reading, The Library of University College, Reading,
Repton School (L. A. Berd), Repton, Burton on Treat,
Shoffeld, 19.

Sheffield, The University Library, Sheffield, Shrewsbury, Library, Still Mond School,

St. Andrews, The University Library, St. Andrews, V.B.

Uppingham, The Library of Uppingham School, School House, Uppingham.

COLONIAL.

Adelaide, The University Library, Adelaide, S. Australia.
Christchurch, The Library of Canterbury College, Christoburch, N.Z.
Melbourne, The Library of the University, Melbourne.
Montreal, The McGill University Library, Montreal, Canada:
Ontario, The University Library, Queen's University, Kingston, Ontario.
Sydney, The Public Library, Sydney, New South Water.

The University Library, Sydney, New South Water, Toronto, The University Library, Toronto

Wellington, The General Assembly Labrary, Wellington, N.Z.

UNITED STATES OF AMERICA

Albany, The New York State Library, Albany, New York, U.S.A. Allegheny, The Carnegle Free Library, Allegheny, Ps., U.S.A. Amherst. The Amherst College Library, Amherst, Mass., U.S.A. Ann Arhay Th. V.

Ann Arbor, The University of Michigan Library, Ann Arbor, Mickigan, U.S.A.

Aurora, The Library of Wells College, Aurora, New York.

Baltimore, The Enoch Pratt Library, Baltimore, Maryland, U.S.A.

The Library of Johns Hopkins University, Baltimore, Maryland, U.S.A.

The Peabody Institute Library, Ballimore, Maryland, U.S.A.

Berkeley, The University of California Library, Berkeley, California, U.S.A.

Bloomington, Indiana University Library, Bloomington, U.S.A.

Boston, Athenacum, Boston, Mussachuretti, U.S.A.

Museum of Fine Arts, Boston, Massackusetts, U.S.A.
The Public Library, Boston, Massackusetts, U.S.A.

Boulder, The University of Colorado Library, Boulder, Colorado, U.S.A.

Brooklyn, The Brooklyn Institute of Arts and Sciences, Brooklyn, New York, U.S.A.

The Public Library, Brooklyn, New York, U.S.A.

Brunswick, The Bowdom College Library, Brunswick, Maine, U.S.A. Burlington, University of Vermont Library, Burlington, Vermont, U.S.A.

California, Stanford University Labrary, California, U.S.A.

Cambridge, The Harvard University Library, Cambridge, Massachusetts, U.S.A. Chapel Hill, University of North Carolina, Chapel Hill, North Carolina, U.S.A.

Chicago, The University of Chicago Press, Chicago, Himois, U.S.A.

Cincinnati, The Public Library, Cincinnati, Ohio, U.S.A.

" The University of Circinnati Library, Clarimati, Ohio, U.S.A.

Cleveland, Adeibert College Library, Cleveland, Ohio, U.S.A. Clinton, The Hamilton College Library, Clinton, New York, U.S.A.

Columbia, The University of Missouri Library, Cocumbia, Missouri, U.S.A.

Delaware. The Library of Ohio Wesleyan University, Delaware, Ohio, U.S.A.

Grand Rapids. The Public Literary, Grand Rapids, Michigan, U.S.A.

Hanover, The Dartmouth College Library, Hanover, New Hampshire, U.S.A.

Hartford, The Case Memorial Library, Hartford, Conn., U.S.A.

Trinity College Library, Hartford, Conn., C.S.A.

Iowa City, The University of Iowa Library, Iowa City, Iowa, U.S.A.

Ithaca, The Cornell University Library, Hann, New York, U.S.A.

Jersey City, The Free Public Library, Jersey City, New Jersey, U.S.A.

Lansing, The State Library, Lauring, Michigan, U.S.A.

Lawrence, The University of Kansas, Lawrence, Kansas, U.S.A.

Lowell, The City Library, Lowell, Main, U.S.A.

Madison, University of Wisconsin Library, Madison, U.S.A.

Middletown, The Library of Wesleyan University, Middletown, Coun., U.S.A.

Minneapolis, The Library of Minnesota University, Minneapolis, U.S.A.

Mount Holyoke, The Mount Holyoke College Library, South Hadley, Mass., U.S.A.

Mount Vernon, Cornell College Library, Mount Vernon, Iown, U.S.A.

New Haven, The Library of Yale University, New Haven, Conn., U.S.A. New York, The Library of the College of the City of New York, New York, U.S.A.

The Library of Columbia University, New York, N.Y., U.S.A.
The Minropolitan Museum of Art, New York, N.Y., U.S.A.

The Public Library, New York, N.Y., U.S.A.

Northampton, Smith College Library, Northampton, Marx, U.S.A.

Philadelphia, The Free Library, Philadelphia, Pa., U.S.A.

The Library Company, Philadelphia, Pa., U.S.A.

The Library of the University of Pennsylvania, Philadelphia, Pa., U.S.A.

The Museum of the University, Philadelphia, Pa., U.S.A.

Pittsburg, The Carnegle Library, Pattiburg, Pa., U.S.A.

Poughkeepsie, The Vassar Library, Paughkeepsie, New York, U.S.A.

Providence, The Brown University Library, Providence, Rhade Island, U.S.A.

Sacramento, The California State Library, Sacramento, California, U.S.A.

Sioux, Morningside College Library, Stour, Iona, U.S.A.

St. Louis, The Mercantile Library Association, St. Louis, Mo., U.S.A.

Washington University Library, St. Louiz, Mo., U.S.A.

Swarthmore, Swarthmore College Library, Swarthmore, Pa., U.S.A.
Syracuse, The Syracuse University Library, Spracuse, New York, U.S.A.

Urbana, The University of Illinois Elbrary, Urbana, Illinais, U.S.A. Washington, The Library of Congress, Washington, D.C., U.S.A.

Wellesiey, Wellesiey College Library, Wellerity, Mass., C.S.A.

Williamstown, The Williams College Library, Williamstown, Mass., U.S.A.

Worcester, The Free Library, Worcetter, Mass., U.S.A.

AUSTRIA-HUNGARY.

Budapest, Antikencabinet des Unger, National-Museums, Budapest, Hungary, Czernowitz, K. K. Universitäts-Bildiothek, Czernowitz, Bukawami, Austria-Hungary, Prague, Archaelog-sepagraphusches Seminar, Universität, Prag. Robenta (Dr. Willistm Klein)

Vienna, K.K. Hofinohothek, Wien, Austria Hungary

BELGIUM.

Brussela, Musées Royaux des Arts Décorarifs et Imbistriels, Palais du Cinquantenarte Brusselles Bélgium

CYPRUS.

Cyprus Museum.

DENMARK

*Copenhagen, Det Store Kongelike Bibliothek, Copenhagen Denmurk

FRANCE.

Lille, La llibliothèque de l'Université de Lille, 3. Rue Joan Bart, Lille.

Lyon, La Bibliothèque de l'Université, Lyon.

Montpellier, Hibliotheque Universitaire, Montpellier,

Nancy, La Bibliothèque de l'Université, Nancy,

" L'Institut d'Archéologie, l'Université. Nancy.

Paris, La Ribliothèque de l'Institut de France, Paris.

" La Bibliothèque de l'Université de Paris, Paris,

" La Bibliochèque des Mesdes Nationaux, Musics du Louvre, Parie.

.. La Bibliothèque Nationale, Rue de Richelleu, Paris

... La Indictrioque de l'École Normale Supérioure, 45, Rue d'Ulm, Paris.

L'Institut d'Archéologie Grecque de la Faculte des lettres de Paris à la Sarbonne.

GERMANY.

Berlin, Königliche Bibliothek, Berlin,

Königliche Universitäts-Hibliothek, Herlin.

37 Bibliothek der Königlichen Museen, Berlin.

Breslau, Konighche und Universitäts-Bibliothek, Breslau.

Dresden, Königliche Skulpturensammlung, Dreiden. Erlangen, Universitäts-Ribliothek, Erlangen.

Freiburg, Universitäts-Bibliothek, Freiburg i. Br., Baden (Prof. Steup).

Giessen Philologisches Seminar, Gleisen.

Gottingen Universitäts-Bibliothek, Göttingen.

Archaologisches Institut der Universität.

Greifswald. Universitäts-Bibliothek, Greifswald.

Heidelberg, Universitäts-Bibliothek, Heidelberg.

Jena Universitate-Ribliotnek, Jina.

Kiel, Kimighelm Universitats-Bibliothek, Kiel.

Konigaberg, Königt und Universitäts-Bibliothek, Arnegaberg,

Marburg, Universitäts-Bibliothek, Marburg,
Library of the Archaeological Seminar.

Munster, Konigliche Paulinische Bibliothek. Munder i. W.

Munich, Archiologisches Seminar der Königt. Universität, Galleriestrasse 4. Müncken.

Rönigl Hof- und Staatshibliothek, Müncken. Rostook, Universitäts-Bibliothek, Rostock, Mecklenburg.

Strassburg, Kunstarchaolog, Institut der Universität, Strassburg, Universitäts- und Landes Bibliothek, Strassburg, Tubingen, Universitäts-Ribliothek, Tubingen, Warttemberg.

K Architolog, Institut der Universität, Wilhelmstrasse, 9, Tübingen, Württemberg.

Wurzburg, K. Universität, Konsigeschichtlicher Misseum, Würzburg, Bacaria.

GREECE.

Athens, The American School of Classical Studies, Athens,

K K Oesterreichisches Archaeol, Institut., Boulevard Alexamire 18, Athous.

HOLLAND

Leiden, University Library, Leiden, Holland. Utrecht, University Library, Utrecht, Holland.

ITALY.

Padua, Gabinetto di Archaeologia, Regio Università, Padua, Rome, The American Academy, Porta San Pancrario, Kome. Turin, Biblioteca Nazionale, Torino, Haly.

NORWAY.

Christiania, Universitäts-Bibliothek, Christiania, Normay,

RUSSIA

Petrograd, La Ribliothèque Impériale Publique, Petrograd, l'usua.

SWEDEN

Stockholm, Kongl. Biblioneket, Stockholm, Sweden.
Uppsala, Kungl. Universitetets Bibliotek, Uppsala, Sweden.

SWITZERLAND.

Geneva, La Bibliothèque Publique, Genève, Switzerland

Lausanne, L'Association de Lectures Philologiques, Avenue Davel 5, Lauranne

(Dr. H. Meylan-Faure)

Zürich, Zentral Bibliothès, Zurich, Switzerland.

SYRIA

Jerusalem, Rode Biblique de St. Étienne, Jérusalem.

LIST OF JOURNALS, &C., RECEIVED IN EXCHANGE FOR THE JOURNAL OF HELLENIC STUDIES.

American Journal of Archaeology (Miss Mary H. Buckingham, 96, Chestnut Street, Reston, Mass., U.S.A.).

American Journal of Philology (Library of the Johns Hopkins University, Baltimore, Maryland, U.S.A.).

Analesta Bollandisua, Societé des Bollandistes, 22. Boulevard Saint-Michel, Bruxellez.

Annales de la Faculté des Lettres de Bordeaux (Revue des Études Anciennes—Bulletin
Hispanique—Bulletin Italien) Redaction des Annales de la Faculté des
Lettres, L'Université, Bordeaux, France.

Annals of Archaeology and Anthropology (The Institute of Archaeology, 40, Bedford Street, Liverpool)

Annual of the British School at Athens,

Amuurio della Regia Senola di Atene, Alkena Grecca.

Archiv für Religionswissenschaft B. G. Tenbner, Leipsie).

Berliner Philologische Wochenschrift (O. R. Reisland, Carlistrate 20, Lettrig, Germany), Bulletin de Carrespondance Heilenique (published by the Franch School at Athen)

Bullatin de l'Institut Archéol. Russe, à Constantinople (M. le Secrétaire, L'Institut Archéol. Russe, Constantinople).

Bulletin de la Société Archéologique d'Alexandrie, Alexandria

Bullettino della Commissione Archeologica Comunale di Roma (Prof. Gatti, Museo Capitolino, Rome).

Bymminische Zeitschrift

Camiogne général des Antiquités Égyptiennes du Manée du Caire, with the Annales du Service des Antiquités de l'Égypte, Cairo.

Classical Philology, University of Chicago, U.S.A.

Ephemeris Archaiologike, Athone

Glutta (Prof. Dr. Kretschmer, Florianigane, 23, Plenes).

Hermes (Herr Professor Friedrich Leo, Friedhander Wog, Gillingen, Germany).

Jahrbuch des kars, dentach, archaol, Instituta, Cornellusstrasse No. 25, Berlin.

Jahreshefte des Österreichischen Archaologischen Institutes, Tartentram 4, Vienna.

Journal of the Anthropological Institute, and Man, 30, Great Russell Street, W.C.

Journal of Philology and Transactions of the Cambridge Philological Society

Journal of the Royal Institute of British Architects, 9, Conduit Street, W.

Journal International d'Archéologie Numeranque (M. J. N. Syoromes, Musée National, Atheres.

Klin (Beitrage zur alten Geschichte), Prot. E. Kornemann, Necharhalde 55, Taltingen.

Mélanges de la Faculté Orientale d l'Université S. Joseph, Beyrouth, Syria.

Melanges d'Histoire et d'Archéologie. Ecole française, Palaxes Farmese, Rome.

Mempon (Prof. Dr. R. Freiherr von Lichtenberg, Lindenstrasse 5, Reelin Sudende, Germany).

Memorie dell' Institute di Bologna, Sealune di Scienze Storico-Filologiche (R. Accadevira di Bologno, Italy).

Mittellungen des kais, dentsch, Archaol, Instituta, Athens

Mitteilungen des kars, deutsch: Archaol, Instituts, Rome-

Mnemosyne (c.o Mr. E. J. Brill), London, Holland.

Neapolis, Signor Penf. V. Maechiorn, Via Crvilla 8, Naples.

Neue Jahrbücher, Herrn Dr. Rektor Ilberg, Kgl. Gymnasium, Wurzen, Saxour.

Notinie degli Scavi, R. Accademia dei Lincei, Rome.

Numismatic Chroniste, 22, Albemarle Street.

Philologus. Zeitschrift für das klassriche Alterium (c/o Dintrich schu Verlage Buchhandlung, Göllingen).

Praktika of the Athenian Archaeological Society. Athens.

Proceedings of the Henemic Philological Syllogos, Constanting/ic.

Publications of the Imperial Archaeological Commission, St. Petersburg.

Revue Archéologique, c. o. M. E., Leroux (Editeur), 23. Rus Rimsparte, Paris

Revue des Études Grecques, 44, Rue de Lille, Paris

Revue Epigraphique (Mons A. J. Reimach, 31; Rue de Berlin, Paris, VIII)

Rheinisches Museum für Philologie (Prof. Dr. A. Brinkmann, Schumonustrusse 55, Ronn-vo-Rhein, Germany).

Studies are Geschichte und Kultur des Altertums (Prof. Dr. E. Dreng, Kultur-Strouse 33, Munick, Germany)

Wochenschrift für klassische Philologie. Berlin.

PROCEEDINGS

SESSION 1914-15

During the past Session the following Papers were read at General Meetings of the Society:—

November 17th, 1914. Professor Percy Gardner; 'The silver Lanx from Corbridge at Alumnich Castle' (see J.H.S. XXXV p. 66).

February 9th, 1915. Mr. R. M. Dawkins: The Modern Greeks in Asia. Minor (see below, pp. xlvi., xlvii.).

May 4th, 1915. Professor J. Linton Myres: The Executions in Cyprus made in 1913 on hehalf of the Cyprus Museum (see below, pp. xlvii., xlviii.)

June 20th, 1915. Dr. Walter Leaf: Presidential Address (see J.H.S. xxxv. p. 161).

THE ANNUAL MEETING was held at Burlington House on June 29th,

Mr. George A. Macmilian, Hon. Secretary, presented the following Annual Report of the Council:—

The Council beg leave to submit the following report for the Session 1914-15.

So far as public obligation has permitted, the work of the Society has been carried on anicessfully throughout the Session. The usual meetings have been held, very fair use has been made of the library and photographic collection, and the losses of membership due to present circumstances have been, as will be seen by the paragraph on Finance, less than might have been expected.

Changes on the Council, etc.—The Society has lost during the year one of its Vice-Presidents, Professor Ingram Bywater. His death is a severe loss, not only to the study of Greek Philosophy and textual criticism, in which he held a foremost rank among European scholars, but to a large circle of students and friends who owed much to his personal inspiration and kindness.

In Dr. A Course the Society has lost a venerated honorary member. While his monumental publication on Grave Reliefs is perhaps his most considerable work, his earlier book on the North Greek islands will always

attract the regard of wandering scholars. Published in 1860, this volume remains a standard of what an archaeological traveller may hope to observe and record. His interest in British students of many generations is kindly remembered.

The Council have had pleasure in inviting the distinguished Danish scholar, Dr. A. Kinch, to become an honorary member of the Society. Mr. H. Stuart Jones has been nominated a Vice President, and Messrs. J. Beazley, W. H. Buckler, and F. M. Cornford have been asked to fill vacancies on the Council.

The duties of auditing the Society's accounts have fallen on Mr. C. F. Clay, his co-auditor, Mr. W. E. F. Macmillan, being engaged on active service.

Strabo on Asia Minor.—The President brought before the Council a proposal that the Society should undertake an exlition of the three books of Strabo (xii-xiv) dealing with Asia Minor. The proposal was approved, and the following were appointed or co-opted as Committee to consider the execution of it: Messrs T. W. Allen J. G. Anderson, W. H. Buckler, F. W. Hasiack, G. F. Hill, D. G. Hogarth, Dr. Walter Leaf (Chairman), Mr. G. A. Macmillian, Sir W. Ramsay, Miss Ramsay, and Mr. Penoyre (Secretary).

The Committee have met and decided that the edition should comprise (1) a Greek text, (2) an English translation, (3) a full commentary with maps and probably illustrations. The war will cause some delay in carrying out the work; but it has been found possible to allocate large portions to such eminent authorities as Sir W. Ramsay, Dr. Leaf, Mr. D. G. Hogarth, Mr. J. G. Anderson, Mr. W. H. Buckler, and others, and substantial progress is being made on materials already in hand:

General Meetings.—At the first General Meeting, held November 17th, Professor Percy Gardner read an illustrated paper on 'The Silver Laux from Corbridge at Alawick Castle.' Professor Gardner's interesting paper will be published in the first part of the Journal for 1915.

At the second General Meeting, held on February 9th, 1915, Mr. R. M. Dawkins read a paper on 'The Modern Greeks in Asia Minor' The subject was limited to such portions of the Christian populations of Asia Minor as are Greek in religion, sentiment and language, excluding, however, the Greeks of the trading communities in the coast towns and those who have settled in the country at different times since the Turkish conquest. The places where the Christians have retained their language and speak Greek, not as a result of the recent activity of Greek Schools but as an inheritance from the old Byzantine times, are the two large districts of Pontos and Cappadocia, and the isolated villages of Livisi on the coast of Lycia, Sille near Konia, and Pharasa and a few other small places in the Anti-Taurus mountains. The dialect spoken at Gyolde in the Katakekaumene district has recently become extinct. Of these destricts Pontos is by far the

largest and its dialect is much better known than any of the others. The paper dealt with the dialects of Sille, Pharasa, Cappadocia, and Pontos, giving the results of four journeys undertaken for this purpose. A series of slides to illustrate the pastoral and agricultural way of life of these people among the mountains, plains and rock-cut dwellings of Cappadocia was also given.

Turning to an analysis of these dialects, he remarked on the rarity of those Italian loan-words which are so common in ordinary Greek. There is on the other hand no lack of the Latin words generally found in Greek The reason for this is that between the late Roman and early Byzantine period, when the Latin words were taken into Greek, and the period following the Fourth Crusade, which gave the Italian words to the language, there occurred the first temptions of the Turks, which separated the Greeks of Asia from their European brethren, and their language was in this way shielded from the influence of Italian. In the same way, of the Slavonic words found in modern Greek very few are in use in Asia. The only considerable Slavonic influence is the Russian element which present conditions are bringing into the vocabulary of Poutic. In the dialect of Cappadocia and still more in that of Pharasa there are some Armenian words, due to their neighbourhood of a targe Armenian population. But by far the most important foreign element is the Turkish. This at Sille and Pharasa, and to a still greater degree in Cappadocia, has affected not only the vocabulary, but also the phonology, inflexions and even the syntax This pressure of Turkish and the influence of the Greek taught in the schools are the two dangers which menace the existence of these dialects.

Apart from this Turkish influence, the dialects of Asia, and especially Pontic, Cappadocian and the dialect of Pharasa, resemble one another much more closely than they resemble any other form of Modern Greek They have to some extent a common vocabulary, and preserve several ancient forms which are elsewhere lost. Their development has also diverged considerably from the lines followed by common Greek. It seems that these divergences are comparatively ancient, and they thus point to a variety of the koun spoken in Asia Minor and perhaps in the islands adjoining it. In this connexion it may be noted that some Asiatic features are to be found in the dialects of Cyprus and Chios, although falsen as a whole these belong to the very strongly marked group of dialects spoken in the Southern Sporades. In the present state of our knowledge the two chief desiderata are a full vocabulary of Cappadocian and some knowledge of the almost unknown dialects which are spokes in n few villages on the upper waters of the Halys and Lycus; these are probably some variety of Pontic, and a knowledge of them might cast light on the origin of the dialect of Pharasa, which has a very marked resemblance to Printic

At the third General Meeting, which was held on May 4th, 1915, Professor J. Linton Myres read a paper on The Excavations in Cyprus, made in 1913, on behalf of the Cyprus Museum, of which he has kindly supplied the following summary :-

The Government of Cypras having provided a sum of £450 for annuparing research excavations were taken in the amount of 1913 by Professor Myras, with the assistance of Mr. Menelaos Markides, the keeper of the Cyprus Museum, and Mr. L. H. D. Buston, B.A., of Exctor College, Oxford. The latter was combiled by a grant from the British Association for the Advancement of Science to follow the whole course of the work and devote himself to the study of the human remains, and of the physical character of the uniders population of each district.

The first size excavated was near the village of Levlennico in the Farmgusta district, where some large statues had recently been found by the villagers. A small rural sunctuary was observed, containing a remarkable deposit of stone sculptures. representing all periods of workmanship from the seventh century i.e., to the Grance-Rowan period, and almost unique for the brilliant preservation of its punited

surfaces.

At Enkony, near Salamis, tombs were opened in the Nectopolis whence the British Museum obtained a fine series of late Minoan antiquities. But this site is now nearly exhausted - only two tombs were found intact, and the results of the operations here see mainly topographical. Careful examination of the megalithic building known as "Saint Catharine's Proom' excluded the possibility that it is of early date, and confirmed the architectural evalence which assigns it to the Roman period.

At Lampouss, sear Lapethos, on the north const, where important Byzantine reasons have been found at various times, a small arm of the size was completely cleared, and found to have been deeply quarried and quite rebuilt in the Roman period. Objects however were found in the debris, of Hellanic and even of late Bronce

Age styles.

Between Lapethes and the sea, an unusually each series of tombs of early and middle Bronze Age, quite undisturbed, yielded many bronze implements, a large quantity of typical pottery, and a venuarkable type of conventionalised figurines. It was possible for the first time, to determine the mode of interment, and the physical characters of the population, which was already a mixture of Mediterranean and "Alpine" types

At Larnaca a complete section of the Bamboula Hill provided the first stratified series of Cypriote pottery, and important guidance for the topography and mistory of

enciont Kmon.

The objects found in these excavations are in the Cyprus Museum is full report will be published aboutly.

Library, Photographic and Lantern Slide Collections. The accessions to the Joint Library thiring the past Session were: Helienic volumes, 109 (=78 books); completed periodicals, 43; pamphlets, 5. To these should be added Roman volumes, 15 (=14 books), volumes of periodicals, 2. These together make a total of 174 items, against 484 of hast year.

The number of volumes borrowed was 678, and the number of visits paid to the Library, 650 as against 1,082 and 1,072 respectively for the last

The Council acknowledge with thanks gifts of books from the following bodies: H. M. Government of India, The British Academy, the Trustees of the British Museum, the Director of the Service des Antiquites de l'Egypte, the Egyptian Exploration Fund.

The following publishers have presented copies of recently published works: Messes G. Bell and Son, Blackwell, Fratelli Bocca, Bruckmann, P. Genthner, Lee-Warner, Macmillan and Co., Marcus and Weber, Methnen, G. P. Purnam's Sons, B. Quaritch, G. Reimer, B. Seeber, Schoningh, Teubner, and the University Presses of the following Universities, Cambridge, Oxford, and Virginia.

The following authors have presented copies of their works; Messrs, J. de Mot, L. Galante, C. Hadaczek, W. R. Halliday, Lehmann-Haupt, Miss C. G. Harcum, J. D. Kolleston, Romstedt, F. P. Weber, S. E. Winbolt,

F Wright.

Miscellaneous donations of books have been received from the Hon. F. Amherst, Miss C. A. Hutton, and Miss C. Sharpe.

The slides bired during the Session were 2,376, those sold 2,268; 214 photographs were sold. The corresponding figures for last Session were

3.746, 1,681 and 439.

The Council beg to thank the following donors of slides and negatives: The British School at Athens, the Royal Numismatic Society, Prof. R. Burrows, Miss Mudie Cooke, Mr. G. Dickins, Mr. J. Droop, Mr. B. Fletcher, Mr. E. S. Forster, Mr. E. N. Gardiner, Prof. P. Gardiner, Miss Gosse, Mr. F. W. Hasinek, Mr. G. F. Hill, Rev. J. H. Hopkinson, Mr. J. G. Milne, Miss Virtne-Tebbs, Mr. A. J. B. Wace.

Finance.-Naturally the Income of the Society has suffered during the current year. A considerable decrease in the amount received for members' subscriptions has to be recorded, while fewer new members have been elected, with a consequent reduction in the receipts for Entrance Fees. Subscriptions from the Libraries, apart from enemy countries, have been well maintained, and the decrease under this heading represents the amount usually received from Germany and Austria. The total drop in Subscriptions and Entrance Pees compared with last year amounts to about Lion. The amount received by the sale of the Journal is less by £70, making a total decrease in the ordinary revenues of about £170. To meet this some economies have been necessary, and it will be seen that considerable reductions have been made in expenditure on the Journal and the Library, and that outlay on Postage, Stationery, and Miscellaneous Expenses is lower than last year. Under the Lantern Slides and Photographs Account the sum of £20 has been received from the Roman Society during the year as a contribution to the cost of the new Slide Catalogue. This amount, together with some large items for the sale of Slides, has produced a substantial balance on the right side of this account, which to some extent offsets the large adverse balance of last year. The met result of the Income and Expenditure Account for the year shows a balance to the good of £39.

The Cash balance stands at £472, as against £316 last year and the Debts Receivable are £37 less. Against this, the Debts Payable are decreased to the extent of £67, which practically makes matters even The amount of arrears of members' subscriptions outstanding when the books closed was £134, but this amount is omitted in the making up of accounts.

The losses on the ordinary membership roll have brought the numberdown from 932 to 901. Including the Libraries in the enemy countries, whose subscriptions it is hoped will ultimately be received, the total now stands at 217, as against 209 last year, an increase of eight.

Although the year just ended has not resulted in a financial deficit, it is anticipated that the income for the ensuing year will be further reduced.

Conclusion.—Up till now, since the war began, the Society has been running, and running smoothly, on the momentum gathered of many years. This process cannot be continued indefinitely. The Council asks for nothing inconsistent with pressing public obligation; yet, since the Society stands for the beauty, moderation, and wisdom of life crystallised in ancient Hellas, it does ask for all the practical help on which it can benoarably call to maintain and develop and promulgate those ideals.

The Chairman moved the adoption of the foregoing Annual Report, which resolution was seconded by Lord Cromer and carried unanimously.

The printed list of the Vice-Presidents, Members of Council and Officers, nominated by the Council for election or re-election, was adopted no alternative names having been submitted.

A vote of thanks to the anditor, Mr. C. F. Clay, proposed by Mr.

Pemoyre, was carried unanimously.

The Chairman then delivered his address, and, after discussion, the proceedings terminated by a vote of thanks moved by Lord Creaner.

FINANCIAL STATEMENT.

A comparison with the receipts and expenditure of the hat ten years is formalised by the following tables:

ANALYSIS OF RECKIPTS FOR THE YEARS ENDING:

		HA DE ST	more to	1775	10000	F 200		2.2	N	110000
	TE BEAT	TOOM.	spok.	TOOS.	tute.	THE MAY	DE MAN	TE May,	TOTAL	2013
	1000	1000	7.000	1100	1700	X88.77	I MAY	Mille	- S	1445
Subscriptions Current	7891	753	250	273	771	266	747	376	205	742
Arrears	70				82		7.00		66	6)
		77	70	8=		81	78	87		
Life Georposisions	194	47	47	3.5	-51	-04	15	110	13	200
Liberties	168	173	188	890	197	196	196	201	214	180
Entrance Form	101	63	7%	94	107	#5	50	134	54	31
Dividents	84	-61	60	6±	62	6z	62	62	43	68
Rent: (B.S.A., B.S.R., and Archaeological Institute)		160	101	30	13	22	30	20	20	300
Endowment Fund	1475	122	23	2:	ő.		74	163	3	190
"Excavation at Phylakopi,"	780	21"	18*	12*	7*	10"	3*	145	3*	47
** Facsimile Colles Venntus,"	87	317	3			127	31	:42	4	
Lantern Slides Account	35"	3*	- 57	744	127	(GII	1227	3"		52*
Emergency Fund (for Library Fittings)				700	327	67		-	-	-
Rent, Use of Library, &c. (Roman Society)			-	=	-5	38	66	55	03	800
	1,814	1.230	4,263	1,210	0.630	1,417	1,255	19472	11279	4,289

^{*} Semigra for exposers

ANALYSIS OF EXPENDITURE FOR THE YEARS ENDING :-

									_	_
	roof.	in May	real real	100 Mag	At May.	HE MAY,	or May.	ni May,	posts:	m May.
	4	Z.	2	1	2	4	12	7	4	4
Rent	68	100	100	1001	100	188	205	205	205	305
Value III	73	14	15	15	13	14	13	10	4	m
200	126	178	17%	101	241	221	263	267	-50	
	Triples.		100	PER STATE	71		550	3000	F7.9	487
Library: Parchases & Binding	频	85	53	85	59.	73	193	86	.90	33
Heating, Lighting, Claiming, &c.	-					130	.51	360	140	40
Sundry Printing, Postage,						. 3	(0)	-	0.00	100
Stationery, etc.	158		-0.	140	126	151	176	193	161	122
Lantern Stider Account	v -	-		1						
Photographs Account	1-	100	200	1 327	-	165	30		130*	-
Cost of Journal (less safes)	350	350	400	362	537	385	362	103	507	413
Cost of Journal, Reprint of							100	- 2	100	
Vot XXIII	850	W.	-				= /	-	101	E2011
Grunts	125	215	340	185	150	130	150	150	250	150
Roman Society, Expenses of										-00
formation	-	-	-	111	15.5	5	-	1000	- 1	
Library Fittings			-		408	18:		200	-111	and the
Depreciation of Stocks of	104	10	4	5.3	59	3.	4	1	¥	- 2
	1,095	0.069	1,049	1,161	1,740	$t_{\rm e}$ gro	1+342	1,352	1:573	1,264

^{*} Express he also.

15
2
0
-34
12
334
ы
<
territ.
5
S
5
74
૩
8
55
20
4.2
Ħ
4
-
=
2
ā
12
124
LINE
2
3
ē
奔
Ď
AC
-
40
121
253
=
ä
듬
ж
듬
Strict
Strict
Strict
Strict
ENIC STUE
Strict
SLEENIC STUL
PLEENIC STUL
SLEENIC STUL
HELLENIC STUL
HELLENIC STUL
HELLENIC STUL
OF HELLENIC STUL
LOF RELLENIC STUL
LOF RELLENIC STUL
LOF RELLENIC STUL
OF HELLENIC STUL
DENAL OF RELLENIC STUL
DENAL OF RELLENIC STUL
DURNAL OF HELLENIC STUL
DENAL OF RELLENIC STUL
DURNAL OF HELLENIC STUL
DURNAL OF HELLENIC STUL

D

ö

× 4		
	3 4 5	3
4 2 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Newtitle for Advertisements The Heaville for Advertisements This is a second distance to Income and Expenditure Account 414 19 10	F 6 6057
9 1	8 111	158
-	1 10	
4	1 10	3
200		
et l	Vep	
2	98	
9	1 1	
- B	o X	
in the	4	
3 7	14.6	
2 3	COLD	
2 4 5	1.	
By Sales, including back Vols., from June 1, 1914. to May 31, 1915. The Marmillan & Go., Ltd	dye.	
The state of	A Mil	
百克是出	2 H	
1 E E E	ndri	
e B	No.	
113	14 8	
4		12
18	-0-	: 65
19)	2	£303 0 A
	3 0 305 0 4	100
4 0000	- 60	
W 60+	- 11	
#mm.	- 44	
23 co. 23	E	
1	900	
B 1 1	Men	
	2	
	and the same of	
3 11	<u></u>	
2	0	
3	#	
4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE STREET	
全型 (10)	Dros	
51115	36	
	139	
100		
SXXX XXXX Anter Cessing	notion	
To Printing and Paper, Vol. XXXIV., Part II., and £ £ £ 6 1 1 XXXV., Earl L. Plates 33 0 0 1 1 Viewing and Engraving 33 0 0 1 1 Viewing and Engraving 33 8 0	Tacking, Addressing, and Carrings to Members 52 3 o	

TENCAVATIONS AT PHYLAKOM" ACCOUNT, FROM JUNE 1, 1614, TO MAN 31, 1915.

North — Orbing to Vol. XXXX That Land belon beautifully drive allowed the collection of the filming all an armined figures, of the collection annual for the data of the part film bar bar familiar of the collection of the collect

R Account (10)	4 10 0 4 10 0 4 10 0 4 10 0 135 6 11 24 10 0
Colonii dowiii Francial Result from Date of Publication of Hax II, 1005	4 10 0 190 16 III
	199 Sate of 5 Coupes during year. Deficit Balance at May 31, 1913 for abuting value of Stock)
Marin 192	* * * * * * * * * * * * * * * * * * *
Collema showing Franchis Franchis Franch Fra	135 611 64 16 W
	Deficit Balance brought traward breshiding where of Stocky Courset Year to bround and Texpenditure Autumn?

2.0
1 3
-
- 4
in
1,20
110
- 53
176
- 2
- 2
- 72
9146
- 6
- 20
14
- 3
725
12
1000
- =
133
15
9
162
-
1000
125
Z
124
125
24
120
ACC
173
197
(E)
The same
150
奥
200
3
75
OF.
333
331
-
60
8
150
(4)
10(
200
5011
2
EN
VEN
VEN
X VEN
ICX VEN
DICK VEN
ODICK VEN
CODICK VEN
CODICK VEN
IE CODICK VEN
HE CODEX VEN
THE CODEX VEN
THE CODICK VEN
F THE CODICK VEN
OF THE CODICX VEN
OF THE CODICX VEN
E OF THE CODEX VEN
THE OF THE CODICY VEN
ITLE OF THE CODICX VEN
INTILE OF THE CODICK VEN
SIMILE OF THE CODIX VEN
CSIMILE OF THE CODICK VEN
ACSIMILE OF THE CODICX VEN
PACSIMILE OF THE CODICX VEN
PACSIMILE OF THE CODICY VEN
"FAUSTMILE OF THE CODICX VEN

			THE		
Acquint free	9 20 9	1	00 tt % 00 tt	6130 3.10	# # # # # # # # # # # # # # # # # # #
Column theories Firstchal Result from Theories Fallicanic to May 137, 1035	0 0 0 0 0	C 2 0	788 788 746		
	Ply Sale (ntl)	LANTERN SLIDER AND PHOTOGRAPHS ACCOUNT. FROM IUNE 1, 1014, 10 MAY 31, 1414.	By Receipte from Sales The Hite policy of Day Receipt from Sale of Catalogues Catalogue Catalogue Catalogue Society meant not to	LIBRARY ACCOUNT. FROM JUNE 1, 1914, TO MAY 31, 1915.	By Received for Sules of Catalognes, Duplicates, &c., Toumion received from Mr. H. W. Ball.
Account For Christin Years.	* 11	CRAPHS A	* 60	CHO 3 10	9 9 157
Chienchial Financial Format Format Financial F	- * H 1	AND PRICE	42.22 42.22 42.22 42.23	kr Accou	40.4 410.41
	To Dencil Balance brought forward (aschoring Value of Stock) Half Balance to Aminima Archamboginal formitore Half Balance to Income and Expenditure Account	LANTERS SLIDES	To Sides and Photographs for Sale Shifts for His Photographs for Reference Collection Habburs to Income and Expenditive Account	A SHEEK A	To Purchase.

INCOME AND EXPENDITURE ACCOUNT. From JUNE 4, 1914, to MAY 31, 1915.

		1iv			
	74.0	+0 -0	0 0	0 0 2	4 11 Miles
122	508	5M20	9 11	0 0 # 99	
Q.	8 7	S 2 2 8	:# =	166 C 165	3
* mass	A - 000	2 %		0.0	- 24
9 00 00	446	274 O 10 Na 10 6		0.0	
A 840 E	57 4 58 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	125		8.6	
Pers' Subscriptions— Experiment brought forward from hast yest. 446 TO Remired during surrent year—Arrents. 48 5 1914 1914 1915 1915	Less 7, of 1914 subscriptions forward to A12 near year. Entrance Feet ties Subscriptions forward from last year. 110 Received during current year—1912 & 1914	Life Compountions levelinest forward to the Compountions leveline into Revenue Account Instruction Dividents on Investment	Athens and British School at Rome for use of Society Troon. Reat of room overspied by the Koyal Archaelog, its Institute. Constituted by the Society for Promotion of Rome Studies.	Rent Use of Lithrary Dalance from 'Exparations at Hhyladeopl' Account. Balance from Aratophanes Codes Vereits Account. Induces from Lanium Slides and Thotographus. Account.	
n hat yet Arrean. 1914	descriptions forward to forward from last year.	A Ace	or to	at (thylakesp Veretta Account	
Arrest Pare	100	d i		E 86	
Manner Theorem	cd 1914, abscriptions forware nost year. Entrance Fee abscriptions. The content year of the last year areas abscription.	1 2	Roya	N N	
family 17 years	a 1 1 1 1 1 1 1 1 1 1	# 1	7 4 4	1 32	
, &B = =	la los	Life Compositions brought into	1 6 9	E 055	
1000	2 1 2 1	Acc Acc	見り	Rent Use of Library count. control Aratophane es from Lantern count.	
E0# ::	The special state of	next year next year Deposit Act o Investment	Athens and British Society froom It of room overtibed unfarted by the	Rent Use of Lilinary Account Account ance from Aristopha ance from Lanton Account	
tion of the	Party and Alexander	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	S by constant	III III N	
S Indo	2 S S S S S S S S S S S S S S S S S S S	5 dist.	nted room	Rent Use of 3 and Account Account Account Account Account Account Account Account Account	
96.8	3 992	7 0 14	12211	An and and	
By Members' Subscriptions Properties brought were keenwal during sur	Less 7, of 1914 most year most year. Members Entrance Fees. Libraries Subscriptions— Peopertion trought Received during on		2 2 6	喜 語墨	
>	8.8	22 F	1 2 3	4 33	
100					
			-		
	n-e+# +#	20 50	iel .		7
20 - 10	800-5 00	오전 관명			
20 - 10		오전 관명	30 00 12		
20 - 10	82522 28 20072 00	পর ক্রও			# 11 H613
20 - 10	\$3572 28 80045 00	818 E-			
20 - 10	83522 28 80048 00	9월 23일 일 및 - 9일 23일			
20 - 10	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	0 01		
20 - 10	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3			
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	38 38 38 38 38 38 38 38 38 38 38 38 38 3	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	toft School at Athem Some So o o o con Library Account Telluria Skadler State of Hellenie Skadler (1997)	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	toft School at Athem Some So o o o con Library Account Telluria Skadler State of Hellenie Skadler (1997)	19 0		
20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	chool at Athem. Rome. So o o o lgo o dimary Account of Heltenic Studies. South of Heltenic Studies.	0 01		

0.00	723	· · · · · · · · · · · · · · · · · · ·	N + + + + + + + + + + + + + + + + + + +			(3821 # 0
Andri	By Cash in Hand—Bunk — on Deposits. 300 0 0 Assistant Treasures 11 17 0	Jevelments (Like Compositions) 1 (Enlowment Fund) 570 o o	., Kanergency Fund—Total Expended ., Valuations of Stocks of Publications ., ., Library Kapener Sambo samed inward			*Framined and fessed correct.
0 5 8 5 5 8	さいのの 一生リリ 日本が長	394 18 6			20.16 39	* fren
Linkthin.	To Debts Payable Sammed Sale rapidous strikel forward Sale rapidous strikel forward Surpense Account.	Canon Adam Forma) Canon Adam Forma) Total Received Life Compositions and Donations Local as June 1, 1914	Arstrau Ars	Process of Assets over Liabilities it is role at June 4, 1914 Anti-Stephor Balance from the council Expenditure Account 39 o 5	Making Been of Assets at	

"In the absence of Mr. W. E. F. Murmillan on suiting service the agreementative been multinately Mr. C. F. Clay alone

THIRTEENTH LIST OF

BOOKS AND PAMPHLETS

ADDED TO THE

LIBRARY OF THE SOCIETY

SINCE THE PUBLICATION OF THE CATALOGUE.

1914-1915.

With this list are immergered banks belonging to the Society for the Promotion of Roman Studies. These are distinguished by u.s.

NOTE.—The Original Catalogue published in 1903, with all the supplements appended, can be purchased by members and subscribing libraries at 3.6 (by post 3.10). Applications should be made to the Librarian, 19, Bloomsbury Square, W.C.

Abbott (E.) Perieles and the Golden Age of Athens. [Heroes of the Nations.] 8vo. New York, &c. [N.D.]

Adam (A. M.) Editor. See Plato.

Allison (R.) Translator. See Plantus.

Amherst of Hackney, Lady, A sketch of Egyptian History from the earliest times to the present day. Sec. 1904.

Ammonius. See Diogones Lacrims.

Annuario della Regia Scuola Archeologica di Atene e delle Missioni Italiane in Oriente. From Vol. I. (1914).

Ito. Bergamo. In Progress.

Aristotle. The works of Aristotle translated into English: —
III. De mundo (E. S. Forster); De spiritu (J. F. Dobson).

8vo. Oxford. 1915.

TX. Magna moralia (St. G. Stock); Ethica Endomin—Dovirtutibus et vitilis (J. Solomon).

8yo/ Oxford, 1914.

Arnold (W. T.) The Roman system of provincial administration to the accession of Constantine the Great. 3rd edition, revised by E. S. Bouchier. 8vo. Oxford. 1914.

Boissonade (J. F.) Editor of Marinus. See Diogenes Lacritins.

Bouchier (E. S.) Editor. See Arnold (W. T.) Roman provincial administration.

u.s. - the property of the Roman Society.

Brate (E.) Vanerna : en mytologisk Untersakning. Sva. Stockholm, 1914 British Museum. Department of Greek and Roman Antiquities. Marbles and Bronzes: 50 plates from selected subjects in the Department of Greek and Roman Antiquities. Ed. A. H. Smith. Ho. 1911: Select Bronzes, Greek, Roman and Etrascan. 73 plates. with commentary by H. B. Walters. 4bo. 1915: Bulle (H.) Orchamenos. I. Die ülteren Ansiedelungsschichten. [Abla. d. I. Ki, d. K. Ak, d. Wiss, XXIV (2)1. tto. Munich. 1907. Cavalleri (P. F. de') and Lietzmann (J.) Specimina codicum Graceorum_ [Tab, in psum Schol, I.] Small Fol. Bonn. 1910. Cesnola collection. The Metropolitan Museum of Art: handbook of the Cesnola collection of antiquities from Cyprus. By J. L. Myres. Sec. New York, 1915. a.s. Cheesman (G. L.) The Auxilia of the Roman army. Svo. Oxford: 1914. Cobet (C. G.) Editor. See Diogenes Lacrims. Cook (A. B.) Zens; a study in ancient religion Vol. L. Svo. Cambridge, 1914; as Corstopitum. Report on the excavations in 1913. By R H. Forster, W. H. Knowles, and F. Haverfield. (Arch. Act. Svo. Newcastle-upon-Tyne. 1911. Davis (G. M. N.) The Asiatic Dionysus. Svo. 1914. Daya Ram Sahni. Catalogue of the Museum at Sarnath Soc India, Archeological Survey. Demosthenes. The Crown, the Philippies and ten other Orations of Demostherns. Translated by C. Rann Kennedy. [Every-Sya. 1915. man's Library. 3910. Syn. Paris. Diehl (C.) Manusi a art byzantin Diogenes Laertius. Vita philosophorum. Ed. C. G. Cohat. Olympiodorus - Ammonius - Tamblichum - Porphyrias, 16d. A. Westermann. Marines Ed. J. F. Boissonade Svo Paris. 1878. Dobson (J. F.) Tornslator, See Aristotla B.S. Duff (J. D.) Editor. See Seneon. Edwards (G. M.) Editor, See Homer. s.s. Edwards (G. M.) Editor, See Tacitus Egypt Exploration Fund. 23rd Memoir. The cemeteries of Abydes. Part I. The inixed cometery and Union El-

a.s. = the property of the Roman Solidy.

Ehrle (F.) and Liebaert (P.) Speciation codicum Latinocum. (This.

Ga ah

K. Haddon.

in usum Schol, HL.

By E. Naville, T. E. Post, H. R. Hall, and

4ttc. 1914.

Small Fol. Benn. 1912.

Equitaperus See Kornaros, B.

Evans (A. J.) The Minoan and Mycenaean element in Hellenio life. [Smithsonian Report, 1913.]

Svo. Washington, 1914.

Evans (A. J.) The tomb of the Double Axes and Associated Group.

Pillar rooms and ritual vessels of the Little Palace

at Knosses. [Archaeologia LXV.] 4to 1914.

Ferrabino (A.) Kalypso: saggio d'una storia del mito.

Syot Turin. 1914.

Finlay (G.) A history of Greece from its conquest by the Romans to the present time. Ed. H. F. Tozar. 7 vols. [To replace existing incomplete edition.]

I. Greece under the Romans,

II. The Byzantine Empire (1)

III. The Byzantine and Greek Empires (3)-

IV. Medioval Greece and the Empire of Trebazond.

V. Greece under the Ottoman and Venetian domination.

VI The Greek Revolution (1)

VII. The Greek Revolution (2). Establishment of the Greek Kingdom. 8vo. Oxford, 1877.

Pirth (J. B.) Augustus Cosar and the Organisation of the Empire of Rome. [Heroes of the Nations.]

8vo. New York, &c. [1902]

Fitzhugh (T.) Indo-European Rhythm. [Univ. of Virginia: Bull. of the Sch. of Lat., 7.] 8vo Charlottesville, Va. 1912.

Fitzhugh (T.) The Origin of Verse. [Univ. of Virginia: Bull of the Sch of Latin, 8.] Svo. Charlottesville. 1915.

Forster (E. S.) Translator. See Aristotle.

Francke (A. H.) See India, Archaeological Survey.

Frazer (J. G.) The Golden Bough Vol XII Bibliography and general index. Svo. 1915,

Frichenhaus (A.) See Tirvas.

Friedlaender (J.) Beiträge zur alteren Munzkunde. Ser Pimler (M.)

Gauckler (P.) See Inventaire des mosaiques de la finule.

Hackl (R.) See Tiryna.

Haddon (K.) See Egypt Exploration Eund.

Hall (H. R.) Aggests archaeology: an introduction to the archaeology of prehistoric Greece. Sec. 1915.

Hall (H. R.) See Egypt Exploration Fund.

Hammond (B. E.) Bodies Politic and their governments.

8vo. Cambridge, 1915.

Harcum (C. G.) Roman cooks. Svo. Baltimore. 1914

Harrison (M. C.) Translator. See Seta (A. della).

Haverfield (F.) Roman Britain in 1913. (British Acad, Supp. Papers, IL.) 8vo. 1914.

Heaton (N.) Sem Tiryns.

and a the property of the Bomus Society.

Hogarth (D. G.) The Ancient East. [Home University Liberry.] 8vo. 1914. The Hiad of Homer done into English Prose by A. Lang. 8vos 1914 W. Lenf, and E. Myers, [Globe edition.] Odyssey, Books VI and VII. Ed. G. M. Edwards. Homer. [Cambridge Elementary Chasies.] Svo. Cambridge, 1915. Hoskier (H. C.) Codex B and its allies: a study and an indict-Svo 1914: ment 2 vols Iamblichus, See Diogenes Laertius. India, Archaeological Survey of. XXXVIII. Autopaties of Indian Tibet. By A. H. Ho. Calcutta 1914. Francke. Catalogue of the Museum of Archaeology at Sarnath: By Svo. Calcutta, 1914. Daya Ram Sahni s.s. Inventaire des mosaiques de la Gaule. By G Lafaye, P. Ganckler, and F. G. de Pachteres From I. (1909). Svo and Atlus. Paris. In Progress. Svo. Copenhagen. 1914. ma Jacobsen J. P.) Mane-Karo (G.) Editor See Tiryna [Tals, in usum Schol VII.] Kern (0.) Inscriptiones Grawns. Simil Fol. Bonn. 1913. s.s. Keyes, (C. W.) The rise of the Equites in the third century of Syn. Oxford 1915. the Roman Empire. Klassiker der Archäologie. See Ress (L.) and Welcker (F. G.) Koldewey (R.) The excavations at Babylon. Svo. 1914. Kornaros (B.) Epurospiros, Ed S A Xanthomildes. Svo. Horacleum, 1915. Lafaye (G.) See Inventaire des mesasques de la Ganle. Leeuwen (J. Van) Editor. See Menander. Liebaert (P.) Specimina codicum Latinorum. See Ehrle (F.) Lietzmann (J.) Specimina codicum Graecorum. Sea Cavalieri (P. F. de.) Marinus. See Diagenes Lacetine. Menander, Hern-Disceptantes-Circumtonsa-Samia, Ed. J. Sva: Layden: 1908. Van Leenwon. Merrill (W. A.) Corruption in the text of Lucrotius (Univ. Californ. Class. Phil. publications, 2.1

Merrill (W. A.) Proposed emendations of Lucretius. [Univ. Call form Choss. Phil. publications, 2.]

Svo. Berkeley, 1911

Metropolitan Museum of Art. Comola collection. See Casmin.

Meyer (E.) Forschungen anv alten Geschichte. II.

8vo. Halle. 1899.

Morgan (M. H.) Translator, See Vitruvius.

R.s. = the property of the Roman Society.

Mount (C. B.) Translations. Excerpts quaeshin poeseos Gracos et Latine reddidit C.B.M., 8vo. Oxford, 1915.

n.s. Id. Another copy.

Mueller (W.) See Tiryns.

Murray (G.) Hamlet and Oresten: a study in traditional types.
[British Acad. Annual Shakespears Lacture.]

Sec. 1914.

Myres (J. L.) Metropolitan Museum of Art: Handbook of the Cesnola collection of antiquities from Cyprus. See Cesnola.

Naville (E.) See Egypt Exploration Fund,

Norton (R.) Berninl and other studies.

Svo. New York and London. 1914.

Oelmann (F.) See Tiryus.

Olympiodorus. See Diogenes Laertina.

Pachtere (F. G. de) See Inventaire des mesanques de la Gaule

Pest (T. E.) See Egypt Exploration Fund.

Pinder (M.) and Friedlaender (J.) Beitrage zur alteren Münzkunde.
L. 1, 2. 8vo. Berlin. 1851.

Plato. The Apology of Socrates. Ed. A. M. Adam. (Cambridge Elementary Classics.) Svo. Cambridge, 1914.

8.8. Plautus. Plautus, five of his plays: translated into English verse by R. Allison. Svo. 1914.

Porphyrius. See Diogenes Lacrius.

Rann-Kennedy (C.) Translator. See Demosthenes.

Rodenwaldt (G.) See Tievas.

Rolleston (J. D.) Lucian and Medicine, [Proc. R. Soc. of Medicine VIII.] Sec. 1915.

Romstedt (M.) Die wirtschaftliche Organisation des athenischen Reiches. Svo. Weida I. Th. 1914

Ross (L.) Inscheisen [Klassiker der Archaologie.] 2 vols.

8vo. Halla, 1912-3.

Sandys (J. E.) A short history of classical scholarship.

Syo. Cambridge, 1915.

s.a. Santacruz (S. G.) El solar Numantino. Svo. Madrid. 1914.
Sartiaux (F.) Les Sculptures et la Restauration du temple d'Association.
5vo. Paris, 1915.

Schubart (W.) Papyri Graecae Bornimuses, [Tab. in usum Schol. H.] Small Foi, Bonn, 1911

Scott-Stevenson (Mrs.) Our cide through Asia Minor.

890% ISSI

8.8 Seneca. J. Annaei Senecas Dialogorum Libei X.-XII. Ed. J. D. Duff. Svo. Cambridge. 1915

Scuipture, Painting and Architecture Trsl. M. C. Harrison.

m.s. Sharpe (M.) The accuracy of the Domesday Land Measures in Middlesex, and their Roman Origin.

4to, Brentford, 1914.

Smith (A. H.) Editor. See British Museum.

Solomon (J.) Translator. See Aristotle.

Stock (St. G.) Translator, See Aristotle.

Sykes (P. M.) A history of Persia, 2 vols. 8vo. - 1915.

Tabulae in usum Scholarum. See Cavalier (P. F. de), Delbrucck (R.), Ehrle (F.), Diehl (C.), Kern (O.), Schubart (W.), and Tissecunt (E.)

R.a. Tacitus. Annales. IV. Ed. G. M. Edwards.

Svo. Cambridge, 1915.

Theander (C.) Grekisk lyrik from stonar och papyri.

Svo. Stockholm, 1915.

Thompson (M. S.) The nomads of the Balkans. See Wace (A. J. B.)

Tiryns: die Ergebnisse der Ausgrabungen des Instituts. 2 vols. Ed. G. Kara

> I. Die Hera von Tiryns. By A. Frichenhaus. Die 'gesmetrische' Nekropole, By W. Mueller and E. Oelmann

II. Die Fresken des Palastes. By G. Rodenwalt, R. Hackland S. Houton, 4to, Athens, 1912-14 Deposited : not to be taken out.

Tisserant (E.) Specimina codicum Orientalium. (Tal. in usum Small Fol. Bonn. 1914. Schol VIII

Vitruvius. The tan books on Architecture. Translated by M. H. Morgan : illustrated by H. L. Warren.

Syn, Cambridge, 1914.

Wace (A. J. B.) and Thompson (M. S.) The nomals of the STO 1914. Balkans.

Walters (H. B.) Editor. See British Museum, Select bronses. Warren (H. L.) Blustentor. See Vitravius.

Welcker (F. G.) Zoega's Leben, | Klassiker der Archaologie. Svo. Halle, 1912-3. 2 vols:

Westermann (A.) Editor of Olympiodorus, Ammonius, Iamblichus, Porphyrius See Biogenes Laertins.

Winbolt (S. E.) Latin hexameter verse. 1903 Svo.

Wright (F.) Greek Music. [Edinburgh Review, 1914.]

Svo. Edinburgh.

Xanthoudides (S. A.) Editor. Sea Kormiros.

Zimmern (A. E.) The Greek Commonwealth. 2nd edition.

Svo. Oxford. 1914

a.s. = the property of the Roman Somety.

SECOND LIST OF

ACCESSIONS TO THE CATALOGUE OF SLIDES IN THE JOINT COLLECTION OF THE SOCIETIES FOR THE PROMOTION OF HELLENIC AND ROMAN STUDIES

PUBLISHED IN VOL. XXXIII OF THE JOURNAL OF HELLENIC STUDIES.
AND ESCHED WITH VOL. IV OF THE JOURNAL OF GOMAN STUDIES.

(Subsequent accessions will be published annually.)

Copies of this Accession List may be had, price 3d.

TOPOGRAPHY AND EXCAVATIONS.

	ASIA MINOR.
5119	Melekopt, will all
8124	Miati, general view.
1361	Pharasa, Byzantina Castle.
E142	Sinasos, S. Nemlay and rocks.
8334	Constantinopte, Semglie Point and Santa Sophia from across the Golden Harn.
9078	antrance to Black Sen from so-called Glant's Grave.
4006	
- wyone	as contains of Theoriesian, relief (J. H. S. XXIX, p. 67, fig. 6),
1802	Pamagesta, St. George and the Cathedral Mosque.
2002	remarkance, or manks and the community woulder
	CRETE.
1481	Account occurrence and project on the Control of
	Chossus, small palms with Roman house and firmer above.
1832	Hagia Triada, dinimgo system.
10,089	Platt, plan of late Minoen house.
9990	,, plan and method of tholos tentls
9107	i. L.M. III house in Δ, vostibule and court looking S.
970%	o a mount, with later walls removed, looking S.E.
9118	" , solimned hall with vestibule and court, looking S. W.
9109	H 14 M part of columned hall, looking N.W.
910=	, houses in A; N. front looking S.E.
Gild	vanus in L. M., Chouse, to the S. of A group.
	ISLANDS. •
9346	Delos, plan of the site.
0162	the mave isospie.
9183	a Hima
9187	Roman house, view from towards Rhoneia.
9188	
9186	2 moveter in-
0064	
1 945554	Paron, Farnekia: Church of Hekatomanyhane, W. side from village.

N. GREECE

AV STANDAY OF
Deiphi, the stadion.
the Castalian Spring : the source
tholes at Marmaria
temple of Athens Promis.
Orchomenos, pushistorie walls.
tholos tout from without.
at within
Aeropolis
Thermon, temple of Apailo
alliptical building.
Thermopylue and Artemisium, plan of the operations.
CONTRACTOR CONTRACTOR D
Ochrida, S Sophia, saithes from N.E.
main upon. control dome of church from S.L.
property and the second
(lake) as mastery of Sveri Nasum, exterior.
Salontka, arch of Galerius, S. pier. detail of W. face.
as N. piec
Coregra, the harbour.
Ithaen, actomic to harbour.
ATHENS.
Temple of Nike Apteros, with alter (Restmation, drawing only).
The state of the s
Hisam, view of the stream.
ATTICA
Daphne, the convent view liqui without
Hymettus, mmunery of Asters.
" mimaatery of Kalmrinto, general view.
Church from S.W.
4 (100 100 100 100 100 100 100 100 100 10
the courtyant.
Non-more contri-
Non-more contri-
PELOPONNESUS.
the courtyant.
PELOPONNESUS. Epidanrus, the plain of:
PELOPONNESUS. Epidanrus, the plain of. Olympia.
PELOPONNESUS. Epidanrus, the plain of. Olympia. Entrance to granusium.
PELOPONNESUS. Epidanrus, the plain of. Olympia. Entrance to gramasium. N. W. corner of Altia.
PELOPONNESUS. Distributed: Olympia. Entrance to gramastam. N.W. corner of Altia. Matrom and steps of treasury terrace.
PELOPONNESUS. Distrance to gramasium. N. W. corner of Alta. Metrom and steps of treasury narrana. Altar in treasury with
PELOPONNESUS. Delicoponnesus. Olympia. Entrance to generation. N.W. corner of Attra. Metrom and steps of treasury terrace. Altar in treasury vill. Small temple at W. and of treasury terrace.
PELOPONNESUS. Distributes to generations. N. W. corner of Alta. Metroem and steps of treesury terrace. Altar in treesury vill. Small temple at W. card of treesury terrace. N. W. corner of Stee Politile.
PELOPONNESUS. Delicoponnesus. Colympia. Entrance to gramasium. N. W. corner of Altia. Metroem and steps of treasury turnus. Altai in treasury vill. Small temple at W. end of treasury turnus. N. W. corner of Stee Politile. Economication.
PELOPONNESUS. Delicoponnesus. Colympia. Entrance to generation. N.W. corner of Atta. Metrom and steps of treasury terrace. Altar in becomy vill. Small temple at W. and of recomy terrace. N.W. corner of Stee Policile. Boulemerican. S.W. processional gate from without.
PELOPONNESUS. Delicoponnesus. Clympis. Entrance to gymnasium. N.W. corner of Altia Metrom and steps of treasury terraca. Altar in treasury vill. Small tensoury vill. Small tensoury vill. N.W. corner of Stea Politile. Ecularization. S.W. processional gate from without. eritin.
PELOPONNESUS. Delicoponnesus. Colympia. Entrance to gramasium. N. W. corner of Altia. Metroem and steps of treasury narrata. Altai in treasury viii. Small temple at W. end of treasury invars. N. W. owner of Stee Politile. Beass of Roman statues in S.W. of altia.
PELOPONNESUS. Delicoponnesus. Colympia. Entrance to gymnasium. N.W. corner of Altia Metrom and steps of treasury terraca. Altar in treasury vill. Small temple at W. and of treasury terraca. N.W. corner of Stea Policile. Ecularization. S.W. processional gate from without. eritin. Bases of Roman statues in S.W. of altia. Entry of Station.
PELOPONNESUS. Delicoponnesus. Colympia. Entrance to gramasium. N. W. corner of Altia. Metroem and steps of treasury narrata. Altai in treasury viii. Small temple at W. end of treasury invars. N. W. owner of Stee Politile. Beass of Roman statues in S.W. of altia.

Exiv

SICILY.

9191	Syracuse, Ortygia and Plemmyrian from fountain of Arctiona.
9192	entablistace from gymnesians.
9195	altar of Hiero."
0104	tomb of Timoleon,
9195	ear of Dionysius
0150	Latomia del Paradiso
9197	,, def Capacier
9199	All and the second seco
3139	Enryains, looking E.
3/200	+ 3rd trench, looking N.
	W. Charles
(manager)	ROME.
H-988	Temple of Venus and Bone.
	The Palatine
B457	Temple of Magun Mater.
B458	W. #
1000年程	view from towards Capitol.
B400	view of anhabitetures of Domitianic buildings.
B059	Lower chambers under the domus Tibercans of Domitian.
CANADA A	
B180	Specie Aquae Clandiae
B6825	Bridge on the Appine Way.
	THE PARTY OF THE P
	ROMAN EMPIRE.
B9590	Bulla Regia, peristyle of house,
89504	Thurga-Trining, Tample of Jupiter, Jimo and Minera
B661	Rath, luterior of the Roman bath.
B662	The state of the s
	The Annual Control of the Control of
	INSCRIPTIONS.
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
D152	Corcyra, grant of proximin to Dionyaton (R.M. Gurde to Orest and Roman (Gr, fig. 1)
特利而	grant of prezents to Pansanine (B.M. Gunte to Great and Pansan life, fig. 2)
	PREHELLENIC.
	THE HELLEN TO
9153	Vaces from Monthles cemetery, E.M. ii and iii
9389	Minora case, pas disign.
9996	Carcal (very plaques) peacock and lities, drawings only [B.S.A. xi, p. 285, fig. 14].
1/385	Hagia Triada, fresm-painting y flowers.
9011	Mycemann daggar blades (after Athermos).
B9920	Rock tomin of the advanced from Age in Tuscany.
	SOUL STUDE
	SCULPTURE.
	EARLY RELIEFS.
RESIDE	Assyria, Asserbanipal feasting.
93811	et wanded flom.*
9387	refugees swimming in river.
5127	Deiphi. Chillian to assay; dotail of the triese" four winged horses.
9132	e a detail of the friese" squestrian group
9153	; Sicyonian tomarry ; Dioscuri and Idas.*

PHEIDIAN.

- 8169 Thesms, had of, full face (J. H.S. avrill, p. 285, fig. 11).
- 816 Laborde head cost before rectoration (J.H.S. xxxiii, p. 288, fig. 16a).
- 9188 Athens Partheoos. Restoration, drawing only, (Michaelis, Arz Athenseum, p. 15).
- \$338 Learnian Athenay.

MISCELLANEOUS FIFTH CENTURY.

9130 Figure", possibly from the podiment of one of the Treasuries. Delphi Mus

PRAXITELEAN.

- 8175 Cuidian Aphrodite, head of (J. H.S. xxxiii, p. 282, fig. 6).
- 8176 Elizam of Kaphinodotus, head off J.H.S. xxxiii, p. 279, fig. 41.
- 8171 Holkham homit (J.H.S. xxxiii, p. 277, ng. 2).

LATER RELIEFS.

- 9022 The Corylamtes guarding the lutant Zana, Mus. Capitalino.
- Hellematic relief: Persons and Andromeda B7843
- Roman grave relief * of Settus Adgumius Macrimus and his wife Licinia. B6624
- Sarcophagus at Felix Hall. Drawings only. 9595
- 9598 w
- 9597 10
- **#598**
- **\$529** \$800
- Landscape design in stucce . Farnesina. (Kom, Mitt. xxvi, p. 34, fig. 11.) 9385

BRONZES.

- 9144 Statuette of a trampeter from Sports."
- 5119 Small Greek bronze relief of a denoing girl from Plati" (Crete).

TERRACOTTAS.

- Terracotta punch." Scenes on the Nile. B.M.
- Model for lamp: Victor in chariot mee wasting errorn. H.M. Terracuttae 1, 79. thattime drawing saly.)
- pild Greek pithos fragmenta from Plati* (Civie).
- DHS Greek pithos fragment from Plati' (found near Excenses).
 - " from original or adequate reproduction. h = from cast.

VASES.

BLACKFIGURED.

- D038 Athens in combat with Encelmins (Lenormunt, Elite i, pd. 7).
- 9007 Hermites mit Cerberna* (J.H.S. zviii, p. 290).
- \$5000 Circe and the Committee of Odysseus" (J. H.S. xni, pl. 2).
- Bist Achilles contemplating the body of Hestore the soul of Pairrelus hovering over the timih 5 (N. A.F. 199.)

lxvi

- 9142 Ajax bearing the body of Achilles: the soul of Patroclus proceeds him ¶ [G. d. F. 215.) \$145 Souls of dead warriors (Annual , 1883, pl Q.) Lakonias kylis; Calmus (Avel. Zed. 1881, pl. 12). 5000 0300 Pionto scense (B.M. c. 855). 9392 Olive gatherers." 9891 Maidens at a well." Ladiss bathing at a fountain (Rayet and Collignon, by 50),

REDFIGURED.

- 9901 Apollo voyaging on the triped to Delphi'l (Lenormant, Elite H. pl. 6). 9010 Armeda and fawn. Paris. (J. H.S. xxriii, p. 105.) 9393 Alemens on pyre. 9802 Beilecophim and the Chimsers (Tachbein, i, pl. 1). 9029 Boy mmping Larch, Zell, 1884, pl. 161. 9023 The game of Cattaban (Schmitter, Alles, pl. 781).
- 9008 Charms on the Styx | S.M. Walls Alberton Leighbot pl. 190. " from original. from adequate representation.

PAINTING.

Savopharms from Curunta: Greek and Amazon lighting From minting: the punishment of Ixion, &c. B9120 Pempeina pointed architecture (Russ, Matt. exvi. p. 48, dg. 27). \$133 A 0395 plice figure) DRAW 64 Muse Rechesies 9397 9400 Perceptian pulnting a harbour (Rom. Mitt. zari, pl. D). Roman wall printing P.B. S.R. vil. ph. 2. AST A52 AC. 4. ADII 34 ABIS 息品其及 羽花 拉之 A87 340 **A38** A39 51 A30 CHE 11 57 A35 10 All Painted ceiling in Aures Danues (Ant. Find., 6E, pd. 14). A10 15); A43 wa. w Att 161 m 173. ALL CAT AsI 18). 9594 Vaturan Virgit | Virgit's cologues. Esquilles Odyssey - the isle of Cure. 9593

MOSAICS.

- Praynests mustle r deniseus of the Nile. 0589 9500 Mosain from Villa of Hadrian : Dionyana and goats. 9501 Mamie from Althiburne : ships (Mos. Post.) 9599
- 9125 Dayling monito of the goat done of the convent | the Partokrator.
- 9125 Dupline mo-sic of the Transfiguration.
- Daphno mostic: a group of sainta...
- 9000 S. Luke (Schuli and Barneslay, St. Luke in Sovo, frontispiess : top half).

COINS.

TOWNS, &c.

```
9912 Achsean longue, R. (B.M. Goule, v. B. 25 and Caf. Fellymnesons, pl., 200).
     Aegina, R. (B.M. Cat. Attion, pl. 231, 2417, 251,
5013
     Aegospotamot, Al. (Cat. Tarmer, No. 1, p. 187.)
0014
      Ambracia, R. (R.M. Onide, v. B. 10.)
9015
      Answurtum, E. Primitive status of Artemia [B.M. Cut. Lomonia, &c., (d. 72.)
9155
      Aphrodistas (Carias), E. Types showing Cultus status of Aphrodite.
0155
      Argadia, R. (B;M. Guals, iii. B. 37.)
9017
9018 Argon, R. (B.M. Cat. Poloponnesus, pl. 27 3)
9018 Aspendus, At. (N.M. Gends, u. A. 39.)
1020 Bocotin, R. (B.M. Cat. Control Oreco, pl. 57.)
     Caesares (Canpalociae), R. Type showing primitive cuits figure (S.M. car.
9157
         Maidfiet, etc., pt. 944.)
7405 Carthago Nova Hispano-Carthagmian Barolii collago "(N.C. 1914, pl. 8", &c.)
      Caulonia, R. Bestruck on a Corinthian stater, (N.C. 1914, pl. 7%)
7412
      Ceos. (B.M. Cat Grote, pl. 214.)
909E
      Chice, Ki. and Rt. Period I. 625-575 u.c. (N.C. 1915, pl. 1, 2.)
7415
                                   II. 575-545 B.C.
                                                                   27
7410
                                  III, 545-500 mil
7417
                                                        LBA
        90
                             ., 111 and IV, 500-478 n.o.
7418
     Corinth, R. Stater Ith century. (N.C. 1914, pl. 711.)
Title
     Cyrene, S. Types showing Chariot and Zein Assesse.
9158
      Cythera, R.M. Cat. Polypunicans, pl. 21").
9037
9081 mits, R. (B.M. Cat. Association, pl. 100, pl. 111)
9159 Ephesus I El. Beffrest imeriled edn. (S.M. Cat. Zonie, pl. 3*)
      Epheson, St. 5th continy. Bec types.

St. 4th contary. Bee and does types.

R. 5rd contary. Hellonic Artenda Personal II.
8380
9161
Pisz
                 A. 87-84 n.n. Artninie types.
9163
                 R. Artemis se huntress : Arrems ruling the door.
0185
          XX
                .A. Artomis cultus status.
P196
                gold and aliver plaques from Eylusin and Camirus, showing the type of
2104
         várom Capier.
BUSS Eretria, H. (B.M. Gulle, U. H. SE)
9033 Buboon, R. (B.M. Cat. Central Greece, pl. 175.)
9167 Gsta, R. Terratrachin, 5th cent., Scalpalls amoveling bull. (G. F. Hill, Color of
         fucient Sients, pl. v. 11.3
7408 Geta, R: 5th sentury. Proce showing built wearing wreaths. (N.C. 1914, pl. 7.)
      Hypacpa, & Artunis Amittis in temple Hemp, Hadrian).
9168
      Idalium, R. Sphinz and latus. Negidna .B. Aphrodite.
     tonian, Eli. Pegasus obverses. [N.C. 1914; pl. 81.)
5170 Magnesia ad Macamirum, A. Leukophrycue.
7402 Meios, R. 5th sentury staters. (N.O. 1916, pl. 765-50.)
7410 Measana | Sicilia), R. Tetradeschois lettered A, b, D, &c. (S.C. 1014, pl. 711.)
7114 Metapontum, A. 4th cont. (N.C. 1914, pl. 74.)
9169 Nagidas, R. Aphrodita, Idalium, H. Sphinx and little.
7407 Nyen, Shion and Tyre. Types showing price crowns.
9274 Paphon, Pergamou, Sarries, Jr. Shrare of Paphian Aphrenities.
9173 Perga, E. Pergasan Artemis (antonomous and Imperial)
             AB. tetradrachim: head of Hallamir Artemia. (B.M. Cat. Lycia, etc., pl. 24)
0172
        38
              At tetrastructum Attende the launty-on
9274
      Pergamum, Paphos, Surdes, Jr. Shrines of Paphian Aphrodite
9174
      Rhegium, Rand E. Hemiobols, (N.C. 1914, pl. 75)
Till
$175 Samos, JE. Caltus statue of Bern.
9174 Sardes, Paphus, Pergamen, JE. Shrime of Paphian Aphrodite.
```

ixviii

8178 Selinus, A. River gods Hypus and Selinus smriftning.
9177 A. Artemia and Apollo : Selinus : Heracles : Hypusa.
2407 Siden, Nyss, Tyre. Types showing price crowns.
7413 Thurium, B. Didrachina of reduced standard, old and new types. (N.47, 1914, pl. viii.)
7407 Tyre, Hiden and Nyss. Types showing price crowns.

RULERS

9016 Autigonus Gonatas, R. (B.M. Guide, v. B. f.) 7465 Auttochus III, Salemus I and III, .R. Tetradeschool. (N.C. 1914, pl. 87-9). Bots Clottus Macer and Civil Wars, donnell : Nero and Civil Wars, nuret. 7404 Bueratides and Timarchus of Bactria, R. (N.C. 1914, ph. 80 -) 9034 Eumanes U. R. (B.M. Cat. Mysta, pl. 240.) Galba, assens and matertic. B666 aurei and denorii: Civil Wars, denorii, **B**8885 and Civil Wars, dennett : Nero, asses. Bood Gordian III. (B.M. Cat. Med. pl. 414) Reverse only, contests in Circua. 9035 Roverss only, animals uguting in arena. (E.M. Cat , pl. 42.) 9036 Nero and Civil Wars, sured: Claffins Masor and Civil Wars, desarti. B588 " mues; Gulbs and Civil Wars, denoral. B644 Orodes I. of Partina : restruck tetratruchm (B.M.C., pt. 14"), alcrerse, 8388 3354 Otho and Vitelline, annel : Civil Wars, demorit, Bear 7405 Seleucus I, III, Antiochus III, R. Tetradrachus. (N.c. 1914, pl. 8"-".) 7404 Timarchus and Engratides of Bastria, R. (N.C. 1914, pl. 816 Ac.) 8560 Vitellins, aurer and denarii. aures, desarrow and uz. B670 24 descripe and se. B658 10 BAST unil Otho, aurei : Civil Waru, denorie, 18

MINOR ARTS.

9003 Prory plaques: S. Michael. (R.M. Gat. of Med. Antiquities, pl. 8.)
9005 Escalline Treasure; cashet of Projects. (B.M. Cat. of Med. Antiquities, pl. 18.)

GREEK PEASANT TYPES.

- 4694 An old farmer on his male.
- 4695 A wommn spinning.
- 9994 On the march.
- 9992 A shephoriuse

NOTICE TO CONTRIBUTORS.

THE Council of the Hellenic Society having decided that it is desirable for a common system of transliteration of Greek words to be adopted in the Journal of Hellenic Studies, the following scheme has been drawn up by the Acting Editorial Committee in conjunction with the Consultative Editorial Committee, and has received the approval of the Council.

In consideration of the literary traditions of English scholarship, the scheme is of the nature of a compromise, and in most cases considerable

Intitude of usage is to be allowed.

(1) All Greek proper names should be transfiterated into the Latin alphabet according to the practice of educated Romans of the Augustan age. Thus s should be represented by c, the vowels and diphthongs v, us, or, ov by y, ue, oe, and w respectively, final -os and -ov by -us and -um, and -ρος by -er.

But in the case of the diphthong as, it is felt that et is more suitable than e or i, although in names like Landiesa Alexandria, where they are consecrated by usage, e or i should be preserved, also words eming in -esor must be represented by -enm.

A certain amount of discretion must be allowed in using the oterminations, especially where the Latin usage itself varies or prefers the o form, as Delos. Similarly Latin usage should be followed as far as possible in -c and -a terminations e.g., Priene Smyrna. In some of the more obscure names ending in -pos, as Aéaypos, -er should be avoided, as likely to lead to confusion. The Greek form -on is to be preferred to -o for names like Dion, Hieron, except in a name so common as Apollo, where it would be pedantic.

Names which have acquired a definite English form, such as Corinth, Athens, should of course not be otherwise represented. It is hardly necessary to point out that forms like Hercules, Mercury, Minercy, should not be used for Hercules, Hermes, and

Athena.

- (2) Although names of the gods should be transliterated in the same way as other proper names, names of personifications and epithets such as Nike, Homonoia, Hyakinthios, should full under § 4.
- (3) In no case should accents, especially the circumflex, be written over vowels to show quantity.
- (4) In the case of Grock words other than proper names, used as names of personifications or technical terms, the Grock form should be transliterated letter for letter k being used for κ ch for χ, but y and u being substituted for v and ov, which are misleading in English o.g., Nike, aparyomenos, diadamenos, rhyton.
 - This rule should not be rigidly enforced in the case of Greek words in common English use, such as aegis, symposium. It is also necessary to preserve the use of on for ou in a certain number of words in which it has become almost universal, such as boule, geometric.
- (5) The Acting Editorial Committee are authorised to correct all MSS and proofs in accordance with this scheme, except in the case of a special protest from a contributor. All contributors, therefore, who object on principle to the system approved by the Council, are requested in inform the Editors of the fact when forwarding contributions to the Journal.

In addition to the above system of transliteration, contributors to the Journal of Hellenic Studies are requested, so far as possible, to adhere to the following conventions:—

Quotations from Ancient and Modern Authorities.

Names of anthors should not be underlined; titles of books, articles, periodicals, or other collective publications should be underlined for italics; If the title of an article is quoted as well as the publication in which it is contained, the latter should be bracketed. Thus:

Six, Jahrb. xviii. 1903, p. 34.

HE-

Six, Protogenes (Julerb. xviii. 1903), p. 34.

But as a rule the shorter form of citation is to be preferred

The number of the edition, when necessary, should be indicated by a small figure above the line: e.g. Dittenb. Syll.* 123.

Titles of Periodical and Collective Publications.

The following abbreviations are suggested, as already in more or less general use. In other cases, no abbreviation which is not readily identified should be employed

```
A.-E.M.= Archäelegisch-epigraphische Mitteilungen. Ann. d. L= Annali dell' Institute.
Arch. Ann = Archaelogischer Anzeiger (Beibbat zum Jahrbuch)
Arch Zell .- Archaelogische Zeitung
Ath. Mitt. = Mitteilungen des Deutschen Arch. Inst., Athenseine Abteilung.
Baumeister = Baumeister, Deukmäler des klassischen Altertums.
B.C.H. = Bulletin de Correspondance Hellemque.
Berl, Fus = Furtwängler, Beschreibung der Vesensammlung zu Berlin.
B.M. Brooms - British Museum Catalogue of Brooms.
B.M.C. - British Museum Catalogue of Greek Colus.
B.M. Justr. - Greek Inscriptions in the British Mussum.
B. M. Scalpt = British Museum Catalogue of Scalpture.
B. M. Terracottos = British Museum Catalogue of Terracottos.
B. M. Vasca = British Museum Catalogue of Vascs, 1893, etc.
B.S. A. = Annual of the British School at Athens.
H.S.R. = Papers of the British School at Room-
Bull, d. I. = Bullettino dell' Instituto.
Banolt = Rusolt, Griechischu Geschichte.
C.I.A = Corpus Inscriptionum Grascarum.
I. L.L. = Corpus Inscriptionum Latinarum
Cl. Rec - Clissical Review.
C.R. Acad. Inscr. - Comptes rendus de l'Académie dus Inscriptions.
 C.R. St. Pit. = Compte remiu de la Commission de St. Petersburg.
Dar. Sagl. - Daremberg-Saglio, Dictionnaire des Antiquités.
Dittenb. O.O.I. - Dittenberger, Orientia Gracei Inscriptiones Selectar.
Dittent, 850. - Dittenburger, Sylloge Inscriptionum Gracesrum.
 Εφ. 'Αρχ. = Εφημερίε 'Αρχαινλογική
G.D.L. Collitz, Samurlung der Griechischen Dialakt-Imchriften.
Gorh, A. F. = Gerhard, Aussriosene Vasendaldur.
G.G.A. = Göttingische Gelehrte Azzeigen.
 Head, H.N = Head, Historia Numorum.
 L.G. = Inscriptumes Graucae.
 f. G. A. = Röhl, Inscriptiones Graceae Antuquessume,
 Julyb. - Jahrbuch des Deutschen Archaologischen Instituts.
 Johnson. - Jahreshafte des Oesterreichischen Archaologischen Institutes,
 J.H.S. .- Journal of Hellagio Studies
 Kiia-Kiio (Beitraga zur alten Geschichte)
Le Bas-Wadd, - Le Bes-Waddington, Voyage Archéologique.
 Michel - Michel, Record d'Inscriptions grecques,
Mon. d. I. - Monumenti dell'Instituto.
 Muller-Wies - Willer-Wieseler, Denkumler der alten Kunst.
 Mus. Marbles = Collection of Aucient Marbles in the British Museum.
 None Jahrb. M. Alt. - Neue Jahrbucher für das klassische Altertum.
 New John Phil - New Jahrbusher für Philologie.
```

¹ The attention of contributors is called to the fart that the titles of the volumes of the second laste of the Carpus of Greek Inscriptions, published by the Pressuan Academy, have now been changed as follows :-

I. = Inser. Attiene anno Encircos vetratiores. Life. as assatis quas sel into Eucl. ann. et Augusti tempora. AB. 44

П. = IV. Argolidia

^{46.} VIL = XIL = Megaridia et Basetian. rre 36 Gracciae Septentrionalia

[.] 100 insul. Marie Aeguel practer Delum. 11 ** Italine at Smiline.

- Niese = Niese, Geschichte der griechischen u. makedonischen Staaten. Num. Chr. = Numismatie Chronicie.
- Num. Zell .- Numismatische Zeitschrift.
- Pauly-Wissown Pauly-Wissown, Real-Encyclopadie der classiachen Altertumawissenschaft.
- Philal = Philologus

- Ramssy, C.B. = Ramssy, Cities and Bishoprics of Phrygia.
 Ramssy, Hist. Geog. = Ramssy, Historical Geography of Asia Minor.
 Remach, Edp. Sculpt. = S. Reimach, Réportoire des Sculptures.
 Remach, Edp. Vos. = S. Reimach, Réportoire des Vasca peints.
 Rec. Arch. = Revus Archéologique.

- Res Et Gr. Revue des Étudos Greeques.
- Res. You. Revue Numismatique. Res. Philot. Revue de Philologie.
- Rh. Mos. = Rheinisches Museum
- Rim. Mitt. Mitteilungen des Deutschen Archhologischen Instituts, Rimische Abteilung.
- Roscher = Roscher, Leximon der Mythologie 8. M.C. = Sparia Museum Catalogue 7. A.M. = Timii Asise Minoris.

- Z. J. N. = Zeitschrift für Numamatik.

Transliteration of Inscriptions.

- J Square brackets to indicate additions, i.e. a lacuna tilled by conjecture
 - Curved brackets to indicate alterations, i.e. (1) the resolution of an abbreviation or symbol; (2) letters unisrepresented by the engraver; (8) letters wrongly omitted by the engraver; (4) mistakes of the
 - mpyist.
- < > Angular brackets to indicate omissions, i.e. to enclose superfluous. letters appearing on the original.
 - . Does to represent an unfilled lacums when the exact number of missing letters is known;
- - Dushes for the same purpose, when the number of missing letters is not known.
- Uncertain letters should have dots under them.
- Where the original has iota adscript, it should be reproduced in that form; otherwise it should be supplied as subscript.
- The aspirate, if it appears in the original, should be represented by a special sign, 1_

Quotations from MSS and Literary Texts.

The same conventions should be employed for this purpose as for insurptions, with the following important exceptions:-

- [] Curved brackets to indicate only the resolution of an abbreviation or symbol
- II II Double square brackets to enclose superfluous letters appearing on the
- < > Augular brackets to enclose lotters supplying an omission in the original

The Editors desire to impress upon contributors the necessity of clearly I and accurately indicating accents and breathings, as the neglect of this precaution aids very considerably to the cost of production of the Journal.

RHESOS OF THRACE.

Across the fascinating, if somewhat flamboyant, pictures of the Dolonem there shoots a meteor like Goethe's Sternschuppe:—

> Aus der Höhe schoss ich her Im Stern- und Feuerscheine, Liege nun im Grase quer: Wer hilft mir auf die Beine

Bheses appears in shining armour—or rather, we are told that he appears, for we never see him or hear him. We learn only that on the very night of his entry into the Trojan ranks he is slain in his sleep without a blow. His entry has not been prepared, his exit is forgotten; there is no word of him before or after the tenth book of the Riad.

He can, indeed, hardly be called a person at all. He is a suit of armour labelled with a name, no more. He comes from 'Thrace'—a sufficiently vague term, meaning no more than 'the north.' He has a father Eioneus, 'Shoreman.' But he has not even a city. He is located nowhere in the wide stretch of shore between the Pontic Sea and the mouth of the Axios. The western part of this region is indeed to Homer the country of the Paiomans and Kikones; the Thracians are, it would seem, confined to the custern part, just north of the Hellespont; the only

Three and Macedonia, according to Eustathias and Steph. Byz. The same is little more than the modern 'Scala.' Thus when Konos says that 'Hiere's was the moment name of the Strymmi, we must needs be incredulous; the assertion is patently a conjecture to reconcile the genealogy of Honer with that of the Ehem. Had there bean any ground for an interesting and important an identification, we should establish authors who dualt with Gresh poorgraphy and genealogy

Hower's is a stock name in mythology. In Homer it is given to an otherwise anknown Grock in 21, 11; to a sou of Proteus, gramifather of Hokabe, in Pherokydes up, schol. Enr. Rec. 3; to the father of Dia wife of Iximi, in schol. Ap Bhod iii. 02. There is thus little ground for connecting it with the Strymon, because there was at the month of the river a town 'Hise. That is morely the name given by Grock traders to the 'beann at which they tended before Amphipulis was founded. Thore were indeed two other places so called in

Thracian town of which we hear is Ainos. So far then as Rhesos can be given a Homeric home, it must be somewhere in the Hebros valley? In his case the question $\pi \delta \theta t$ τat $\pi \delta \lambda t$ $\tau \delta \delta t$ $\tau a \lambda t$ best half answered; Rhesos is a drifting shadow unplaced, cut off from all local ties, without any honds to cult or myth. Of divine parentage there is no hint; he is a man so far as he has any real existence. In short, he proclaims himself a poetic fiction, created only for the purpose of supplying an effective object for the night attack of Diomedes and Odysseus. Indeed it might even be said that it is not he, but his white Thracian steeds, which take the first place; he is there only to introduce them and his Thracian panoply. He is called a Thracian only because Thrace was famed for white horses and armour.

This vagueness of outline, this emptiness of content, is evidently the cause of the neglect which, one notable exception apart, was his fate in subsequent literature. Why he should have been made the central figure in the enigmatical Attic tragedy named after him is the main problem with which we have hereafter to deal. If we leave it out of sight for the moment, the only appearances of Rhesos in Greek literature, so far as I know, date from long subsequent days. The remancer Parthenies devotes the last chapter of his work to the tale of the wooing of the huntress maiden Arganthone of Kies in Bithynia by Rhesos, 'before he went to Troy,' It is a simple love-story which might have been told of any pair. In Philostrates' he appears in a totally different light. He is a sort of wild huntsman on Rhodope; the wild beasts come to his hero-shrine to offer themselves in willing sacrifice.

The thing that strikes one about all these stories is the absence of any common bond of locality or legend. In the drama the home of Rhesos, vaguely defined by Homer as Thrace, is on the banks of the Strymon, which to Homer is probably in the land not of the Thracians but the Paionians. In Parthenies he is brought to Bithynia; the locality is fixed by the name of the maiden Arganthone, derived from Mount Arganthonies over Kies. His presence there is explained by his travels in many countries in collecting tribute, and in particular by the reputation of the beautiful huntress, a local Atalanta. In Philostrates we are taken back to Thrace, but to Rhodope, not to the Strymon.

The legendary element of the story varies no less. The play abandous the parentage useribed to Rhesos by Homer; his father is no longer Eionena, but the river-god Strymon; and he is moreover provided with a divine mother in the Muse. Parthenios knows nothing of any divine parentage:

in apparance was deputation things Assembly the east deposit This suppose despraphres Photos Alvins adding. (MS. Alexan, corr. Brink.) Cf. Troy, p. 271. So in Sert, on Jan. 1 469 is in made the son

^{*} Hipponex, fr. 39 (42) actually manns Aims as his bome:

of the Habres.

^{*} Parth, 36 (Erotici Gr., Tembers ed., p. 32)

⁴ Hor. 881

That there was no fixed tradition about his mother appears from the choice given by later authors between Terpsichore, Kielo, Kalliope and Enterps; Rescher, Lev. tv. pp. 198-7.

the lovers are both human. In Philostratos the Homeric story is entirely

abandoned, and Rhesos has taken on the character of saga.

The natural conclusion is that the Rhesos of the *Doloncia* is a purely literary creation of the moment, devoid of local or legendary background. The slightness of the outline accounts for the small impression which this fictitious character produced on later literature; the person of Rhesos was brought upon the Attic stage for some special reason, but was treated with complete freedom from any ties of legend, and elsewhere forgotten, till the late romance writers, foraging in the records of the past, took him as a peg on which to hang unappropriated stories.

There is not even any ground for supposing, as some have done, that Rhesos is a genuine Thracian name. The sole ground for such a supposition is the appearance in Philostratos of a distinct Rhesos-saga. That evidence is too late and untrustworthy for any conclusions; it is not confirmed by the only recurrence of the name as that of a river in the Troad. And to suppose that Rhesos is a Thracian word for 'king,' connected with rex.

seems a carious recrudescence of pre-scientific etymology.

This modest and natural view of Rhesos naturally does not suit the mythologist. He starts with the maxim—quite unproved, and no more than a guess—that every Greek hero, and therefore Rhesos is a 'faded god.' We are not therefore surprised to find that so eminent a scholar as Erwin Rohdo has a great deal to tell us about Rhesos.' He is, it appears 'a tribal god (Stammgott) of the Edomians, of the same type as the Zalmoxis of the Getai, the Sabos or Sahazios of other Thracian stems.' 'The district at the mouth of the Strymon, on the western slopes of Pangaios, is the old home of Rhesos... He dwells on Pangaios as an oracular god.' This theory seems to have been accepted as a matter of course by subsequent writers of the same school; * yet it is eminently worth a closer examination.

It is not often that we can bring the fided god to book by direct evidence; he is generally no more than a precarious deduction from unwarranted assumptions. In the case of Rhesos, as it happens, we have such direct evidence; and it contradicts Dr. Robde in the most emphatic way. It is the evidence of an expert in religion who, though he never had the advantage of sitting at the feet of Prof. Usener, had access to evidence far more abundant than can be at the disposal of the most learned of modern scholars. It is not an obiter dictum, but the deliberate judgment of a man who is carefully considering the very point at issue.

Cicero, in his treatise on theology, discusses the conditions which led to the delification of heroes. It is not enough, he says, that the bero should be of divine parentage; though Achilles, for instance, is in Astypalaea worshipped as a god, it is not because he is son of a goddess. For there are other heroes who are equally sons of goddesses, yet are not worshipped. And as instances he quotes—Orpheus and Rhesos. They are both children

II. 211. 20.

Psyche, p. 151, note 2.

of goddesses, yet neither of them enjoys divine worship. Could there be more explicit evidence?

Perhaps they were not so worshipped in Cicero's day,' Rohde somewhat feebly argues: but that is no evidence for earlier times.' He appears to forget that Cicero is speaking generally—that he represents the learning of his day, not his own personal knowledge. They are not worshipped anywhere means that the Alexandrine theologians who had collected the materials on which he bases his assertions know of no instance of the worship of Rhesos; and that takes us back at least to the fifth century B.C.; so far at least Alexandrian evidence could go. And this, on any assumption, covers the tragedy of Rhesos. We are safe in concluding from Cicero's words not only that the Alexandrines knew of no worship of Rhesos, but that they did not consider the tragedy as evidence of such worship.

This brings us to the gist of the problem, the evidence on which Rohde founds his theory, the theophany of the tragedy of Rhesus attributed to Euripides. It will be worth while to give an abstract of the whole scene, 890-996.

The Muse appears, waiting over the body of her dead son Rhesos, and cursing Diomedes and Odysseus who have slain him by stealth. It is the son of Philammon, Thamyris, who has been the cause of her grief; for it was on her way to the famous contest where, with her sister-Muses, she outsang Thamyris and blinded his eyes, that she fell in with the river-god Strymon, and, yielding to his wooing, became the mother of Rhesos. She gave the babe to his father, who in turn entrusted him to the river-nymphs: Rhesos grew up to be king of Thrace. She foresaw disaster if Rhesos should go to Troy, but he had yielded to the prayers of Hector, and so had met his death. 'And of all this woe, she continues, 'Athena is guilty. It was not the doing of Odysseus or Diomedes; do not think that I am deluded. And yet, Athena, it is thy city which we sister-Muses honour above all; we baunt the place, and Orpheus, the cousin of him whom thou hast slain, is he who displayed the torches of the hidden mysteries; it was Phoibos and we, his kindred band, who equipped thy revered citizen Musaios, so that he should pass in solitary grandeur to the foremost place of men. And my recompense for all this is that I have to mourn over the dead body of my son. I am content with Musaics as my advocate, and need call in no other skilled pleader to speak on my behalf.'10

Here the chorns interrupt to express their satisfaction at learning that the death of Rheses was not due to Hector; and Hector, after

talitatibus - De Nat. D. H. 45.

^{*} Itaque Achilten Astypalaemees ineulani sanctissines colunt. Qui si deus est, et Orphom et Rhessu dii sunt. Muse matre mili: nisi forte maritimes unptine terreniz anteponuntur. Si hi dii nou sunt, quia emsquam coluntur, quo modo illi sunt! Vide igitur ne uirtutibua hominum isti homees babeantur, non immor-

This I take to be the meaning of the last clause, requests & Salar else indican. I cannot help funcying that it contains an allusion to dehates in the Assembly at Athens on the Amphipolis question.

acknowledgment, expresses his intention of preparing a tomb for Rhesos-

and burning with the body a wealth of raiment.

The Muse answers, 'He shall not pass beneath the earth; I will at least ask Persephone, daughter of Demeter, to send his soul up again. She owes me a debt, she is bound to honour the friends of Orpheus. For me, indeed, he will be henceforth as one that is dead and sees not the light; for never will be come where I am, nor behold his mother's face. But he shall lie hidden in caves of the ailver land, a spirit-man (ἀνθρωποδαίμων) beholding the light, even as the spokesman of Bacchos came to dwell in Pangaios' rock, a god venerable to those who know." The speech ends with a prophecy of Achilles' death which is soon to

happen.

This remarkable passage is so full of matter that one hardly knows where to begin. But we may first point out that, far from supporting Rohde and his Stammgott, it decisively contradicts him. The home of Rhesos is not on Pangaios at all; he is a stranger there. Pangaios is the home of Bacchos. A spokesman (προφήτης) of Bacchos has already come there to dwell with the god; Rhesos shall do the same. Rhesos is in fact a new-comer in the second degree. And he is not to be a god; on the contrary, his godhead is denied in double fashion. First by the curious and unique compound άνθρωποδαίμων, which seems purposely designed to exclude the divine. The simple δαίμων might imply godhead; any such implication is effectively excluded by the addition of the manhood in the emphatic place. And secondly by the words used of his predecessor the 'spokesman.' The προφήτης is a subordinate of Bacchos. He is indeed recognized as a god by 'those who know,' those who are initiated in the mysteries; but the outer world remains in ignorance. Yet even this modified divinity is not allowed to Rhesos. If he is indeed a Stammgott of the Edomans, he is most mercilessly degraded from his honours, and the statement of Cicero receives complete confirmation.11

Let us now turn to the passage as a whole. One thing at least is clear; the plain intention is to bring the city of Athens into intimate connexion with Rhesos. The whole blame of Rhesos death is laid upon the goddess, and through her on her citizens. Athens is partner in an evil deed for which reparation is due, in more gratitude for all that the Muses have done for Athens. And the connexion is made through one quite special link-the relation of Orphens to the Elenainian Mysterica. It must have seemed at first sight almost impossible to connect the Thracian Rhesos of Homer with the city: the manner in which it is effected is highly

ingenious.

It is a certain fact that Orphism had, early in the fifth century or

[&]quot; Possibly Rahds is one of these who read Nove for Lors in 972 (Bangoo spechtus Lors Пиууміне жетрак фосция вереда тойне вібода sear), then identifying the spokemen with

Rheses himself. This seems to use impossible, not on any grammatical ground, but because the sorist foregre to dramatically nuthinkable as part of the prophecy-

not long before it, been formally adopted into the Dionysos-Demeter cycle of mysteries, to which it was originally strange. Orphene had 'displayed the torches,' φανὰς έδειξε, of Bacchos at Elensis; this implies that he had also been taken into partnership with Bacchos at headquarters, at the Mount Pangaios whence the Bacchic worship had so widely radiated. That Orphene is in fact the Bάκχου προφήτης who went to live on Pangaios, as Maass has argued, seems to me to be beyond all reasonable doubt. It follows from the whole tenor of the passage, and any other interpretation would be of necessity unintelligible.

We have then reached this point; that the city of Athens is under an obligation, resting on the most elementary considerations of gratitude, to repair a great wrong done to the Muses. The reparation required is that Rhesos shall be taken back to his home on the banks of his father's river, the Strymon; there he is to be honoured much as Orphous is honoured though hardly with so high a rank. The means by which this is to be done is through the goddess of the Eleusinian Mysteries. Persephone, owing the Muses a debt for the aid which Orpheus has given at Eleusis, will be willing to give up the soul of Rhesos for the purpose. This is put in the form first of a strong statement of the obligation, then of a prophecy that the restitution will be made. And the prophecy received in fact such a striking fulfilment that we are quite safe in saying that it was composed after the event.

Greece had early in the fifth century begun to cast longing eyes on the mouth of the Strymon, the gate into the rich plains and richer mines of eastern Macedonia and their potentialities of wealth. But the land was held by the powerful and independent tribe of the Edonians, and two attempts to found a colony there had already failed disastronsly before the attacks of the warlike natives. The first had come from Miletos in 497, the second was a combination under Athenian leadership in 465-414 The third and successful attempt was made by the Athenians, under the leading of Hagnon in 437; and the city of Amphipolis was duly founded.

After two failures, very special religious precautions had of course to be taken; and an oracle solvised that to ensure proper protection from the other world the bones of Rhesos should be brought and duly installed in the new colony. Among the graves which were shown by the electroni of Troy was, of course, that of Rhesos. An expedition was accordingly sent which broke into this grave by night, embarked the bones there found, and carried them to Amphipolis. In the heart of the new town Rhesos was buried in a hero's tomb, and no doubt worshipped with the

[&]quot; See Miss Harrison, Prolegement, ch. v.

It seems to me beads the quantion to organ against Masss, as Perdriret does, on quantions of local Pangaian mythology and geography. I do not use the least ground for supposing that the author of the Bleves know

anything about such matters; that Orpheus went to live at Paugaios only assaus that he was adopted into the Dionysiac system at a place which for the particular purpose is highly convenient.

¹⁴ Thus. iv. 102; Herod. vii. 114,

usual heroic rites. Opposite his tomb, we are told, was a shrine of his mother the Muse, later identified with Klio. 13

The story comes from a late author, Polyainos, 16 and one who is no trustworthy historian; but in this case, as Robde himself says, there is not the least reason for doubting it. The oracles in the fifth century were foul of giving orders for the transference of the bones of heroes to their native places, in order to assure their protection. There is one certainly thatable case in which the Athenians themselves had been concerned only a short time before. An oracle directed in 476 that the bones of Theseus should be brought from Skyros and solemnly laid in the Theseion. The aution had been a brilliant success; Athens had rapidly risen to the height of her power. But if the oracle had to find, and to recommend to Athens. a Thracian hero who had died away from his own land, and whose grave was known so that his bones could be repatriated, it would seem that the choice was singularly limited. Thrace was at this time very little known at Athens; no Thracian heroes, so far as we know, had played a part in Greek history, save in the Trojan War. And even here there were but few. Asteropaios would not serve, for he was son of the river Axios, so it was not possible to pretend that his home was on the Strymon, where the new colony was to be founded. Peiroos, one of the leaders of the Thracians in the Trojan Catalogue, was from Ainos, too far east, even if he was important enough to have his tomb still shown at Troy. Euphemos. captain of the Kikones, might have served; but he was too insignificant, and it is not even said that he went through the necessary formula of being slain. We are in fact reduced to Rhesos or nobody. Rhesos came from Thrace; the name is vague enough; why not make him the son of the river Strymon? Homer says, indeed, that he is son of Eioneus; but it is only respectable for the son of a river-god to have a human father 17 as well. The Homeric paternity can easily be recognized in the name of Eion, the sea-side town which will serve as the port of Amphipolis. The tomb of Rhesas is one of the sights of Troy, and no one claims him elsewhere; so let Rhesos be the patron of the settlement, and let his bones

in Marsyns up schol Fair, Rhes, 847.

[&]quot; Sirat vi 53. I quote the whole passage, so far so it refers to Khime. "Arrest Arrish traisins trayer alclose fluidings traises vic automater traises fel vic Arpander de vic sel acres de Arrest de vice Adquaise rado de

rives vies ()) arisons robinous passenters

notipes Afternius; gubende de feur Arep Super.

ob your Storparies dors, sole de nomings deb

^{&#}x27;Ράσιο δενοράντες καλάμην ποτρίης 16 τ' Αρούρηυρόφης' κλαγέως: κόνο 5' δε πόνο εύδος έρουσθο.

radra roll bed goldserent à stjartyde "Ayror de Toules kroubes arbijus al 12 Physic stian ederug

W San II. xvi. 174-178.

be taken there to ensure the presence of the hero-spirit. There is not the least reason for supposing that the Edonius had ever heard of Rhesos -indeed it is extremely unlikely that they had. If he is not, as seems probable, a creation of the fertile brain of the author of the Doloneia, he may possibly have been, on the high authority of Philostratos, a name from Eastern Thrace, or, if we prefer the romancer Parthenios from Bithynia. That he was a tribal god is the fancy of another and more modern romancer.

We are now in a position which enables us to draw the natural, and to me inevitable, conclusion. The tragedy of Rhesus was a piece d'occasion; and the occasion was the founding of Amphipolis. It is a political piece, intended to encourage the expedition. The Rhesus was written in the year 437, or very near it.

A poet does not go out of his way to accuse his own city and its revered goldess of base ingratitude for favours received unless he has some very special grounds. The process by which the charge is manufactured is very elaborate and artificial. It is not easy at first sight to see how such an accusation can be founded on the killing of Rhesos as described in the Hind. Athena takes part in it, but it is no reproach to her that she should help in the slaying of an enemy who is actually at war with her own Greeks. But the post is equal to the occasion. He provides the necessary link by making Rhesos the son of the Muse." For this so far as we can tell, he had no authority in legend; the whole story proclaims itself as poetic fiction.

The Muses lived not in Thrace but in Pieria. But there was a good precedent, in the case of Orpheus, for making a Thracian son of a Muse. The poet sets about bringing the Muses to Thrace, and for this purpose employs the story of Thamyris, transplanting it from the Peloponnesos, where the Catalogue of the Greek ships had placed it, to Thamyris' home -the author of the Bocotia knew that Thamyris was a Thracian.15 The Muses on their way thither from Pieria are bound to cross the Strymon; the tale of the divine paternity of Rhesos is invented, and he is fixed

to the neighbourhood of Amphipolia.

When this is done, the next step, though not very convincing, is easy, Rhesos, the son of the Muse, is first cousin (airanetros) to Orpheus, and Orpheus has been adopted into the Eleusinian Mysteries; that is, he has been adopted by Athens. 10 Or rather, the Muses have adopted Athens. and conferred upon that favoured city all the glory of the highest mysteries -above all, the glory of Musaios, the Muses Man, who is to the mystic the type of mankind exalted to spiritual heights beyond all his fellows. And the reward of all this unspeakable grace to Athens is that Athens. in the person of her patron goddess, ingloriously slays, by treacherous

>> ZZ IL 595.

[&]quot;This was a comparatively recent achievement, and fresh in men's minds; it had prob-

ably taken place under the Peinistratidal. -Miss Harrison, Probegonous, p. 473.

guile, the beloved son of one of the kindly sisterhood. Can there be a

more base ingratitude?

All this elaborate fiction has been invented in order that an injurious and wholly gratuitous attack may be made on the national honour of Athens and her goddess. That sort of thing is not done unless the solution is patent to every hearer. And in this case the solution is clear. The apparent attack is made in order to lay a solumn obligation on the Athenian state. If they have done the wrong, it is their business to repair it; and that is a thing to say at the moment when the reparation

is actually being made.

It is not likely that the Athenians or any Greeks of the time felt much computation at renewing their attacks on a gallant and independent people in order to possess themselves of valuable silver mines; still a religious sanction would not be out of place there, as it has been found useful under similar circumstances at later periods in history-by the Spannards in America, for instance, not to deal with later events. But there was the story of the body-snatching by night at Troy. That was not a very pretty story at first sight; but it takes on an entirely different aspect when we learn that it is really done by divine order. The earth has given up its dead because the Muse has asked her friend Persephone in Attica to yield up the soul of the hero, which goes of course with his bones. The whole transaction is placed under the divinities of the mystic circle, now combined into one-Demeter, Bacchos, Orphens. The recent admission of Orpheus is made a reason for hinting that Rhesos himself may be admitted into the holy corporation; at all events he is being taken into the region of Pangaios, where Orpheus has lately been adopted. The newcomer may hope for an elevation like that of his cousin, though indeed this is harely hinted at. All that is promised is what is certainly possible for the state, he will dwell in a cave, an derpov, like any other hero; and like any other hero duly worshipped, though he is beneath the earth, he will be kept in a sort of life, seeing the light, by the due heroic sacrifices, the food and drink poured down through a hole upon his resting place. But he will certainly never be received among the gods; to his goddess-mother he will be as dead -

> κάμοι μέν ώς θανών τε κού λεύσσων φάος έσται το λοιπόν ου γάρ ές ταυτόν ποτε ουτ' είσιν ούτε μητρός δψεται δέμας.

How could any sort of post mortem divinity be denied in stronger terms? He will never come to the place, where the gods are, nor can even a goddess

go to him.

I have said that the Rhews must have been written in 437. Perhaps a little latitude must be allowed. But it is clear that it cannot have been written after the surrender of Amphipolis to Brasidas in 424. One thing is quite certain—that no Athenian could have witnessed the Rhesus after that date without intolerable feelings of shame and humiliation.

The reference, even if not intentional, was too obvious to escape the notice of the dullest patriot; and one would not be surprised if we were told that the author of the play had, after that great national disaster, done his best to disclaim the words in which he had so boldly asserted the divine favour under which the ill-starred exploit was carried out.

But it is not impossible that the play may have been written a little before 437. We are told that the oracle under which the bones of Theseus were taken from Skyres to Athens was given in 476; the actual conquest of the island and repatriation of the bones seems to have been effected only seven years later, in 469 or 468. Possibly an interval may have occurred here also. Clearly the play cannot have been written before the oracle was given; but so large an expedition must have demanded long and careful preparation, and it is only due to the credit of the Athenian state to suppose that they negotiated for the voluntary return of the bones by the Trojan authorities before they had resort to the discreditable and sacrilegious step of breaking open the tomb by night. The play may well have been composed in preparation for the actual events of 437, and in order to give a religious gloss to these negotiations.

This conclusion of course is quite consistent with the theory that the Rhesus is an early play of Euripides: but it cannot be a youthful, and hardly even an immature, play. If it was written in 437, it is only a year later than the Alcestis, the earliest survivor, it is quite possible that it may be two or three years earlier, but hardly more. And the circumstances of its composition may go far to explain the peculiarities of its

style and construction.

It is a play written for a special purpose, and the materials are very limited. Rhesos is one of the late comers into the Epos, and it is clear that his name had never been taken up by the popular myth-makers who, in every other case known to us, had transmuted the Homeric tales into the form, often distorted, which the Tragedians found most suited for their purpose. The author of the Rhesus has no source for his story save Homer and his own imagination. He is strictly limited by Homer till he reaches his theophany; then he is quite unrestricted. These are conditions unknown elsewhere. And he is working under strictly hieratic influence—be has to appear as a champion of the Mysteries in their most official and conventional aspect—to represent them as guiding infallibly a piece of state policy. One can hardly imagine Enripides writing quite like himself under these limitations.²³ But these considerations I leave to the experts in tragedy to decide.

One point, however—to return to the theme with which I began—I hope to have made out; that there is no foundation whatever in the theophany of the Rhesus for the idea of Rhesus as a tribal god of the

[&]quot; France, Paux vol. 1: p. 164.

[&]quot; Miss Harrison reminds me that Euripides had an amoretral interest in investe rites; he

was bern at Phlya, which had curious Orphio mysteries of its own. See her Prolegomena, Prof. p. zii, and 641-646.

Edonians. The evidence points conclusively in the other direction. He was a hero brought to the Strymon in the year 437 for a special purpose, and it must be added that he was a complete failure. Cariously enough, though we do hear one thing about the local worship of Amphipolis, Bhesos is not concerned in it. On the death of Brasidas the Amphipolitans transferred to him the rites paid to Hagnon as the founder of the city. Probably that was the end of any regard to the discredited hero of the Doloneia. His honours lasted for thirteen years, and it was true, for four centuries before Cicero said it, that he is nowhere worshipped. He was probably never taken very seriously even by the Athenians; and when they had no further interest in him, the loss said about him the better.

WALTER LEAF.

⁼ Thus. v. 11.

ANCIENT FLUTES FROM EGYPT.

In examining and dealing with the fragments of some Flutes found by Professor Garstang during his excavations at the Royal City of Merce, about fifty miles from Khartoum in the Sudan, a brief consideration may perhaps be permitted respecting the conditions which obtained at this old Nubian capital on the Upper Nile, so far as they appertain to a phase of music long passed away. It may aid in tracing the origin of these particular flutes, and determining whether they are of local workmanship, or imported.

Kush, an ancient kingdom comprised in Ethiopia, later became one of the dependencies of Egypt proper. From the period of the invasion of Cambyses, a.c. 530, his seizure and destruction of Thebes, the island city of Meroc, decreed by the computer to be the capital of the province, became a great trade emporium. Greek influence then began to obtain in the land of the Nile. Although of course the customs, arts, and learning of the more ancient Egyptians extensively prevailed among these more southern people, Meroe was a place of great importance, possessing enough rich and cultured persons to import for use and enjoyment products of art from notable places beyond the Egyptian shores of the Mediterranean.

So much is said in justification of the opinion that, however original and characteristic were the early instruments and music of the Egyptians proper, dating back quite to a.c. 3000, in later times Greece returned to the land of the Pharaohs some of the debt originally incurred with regard to the theory and practice of music when Pythagoras went there and studied the art. We know that this condition was specially the ease with the later flutes, and it should be remarked that of old the term 'Flute' was applied to all instruments of the pipe family whether played with reeds, or true flue-blown. There was from time immemorial a great demand for flute music for solumn ceremotics and a number of social purposes.

The Nay, cut from the thick strong stalk of the avando donax, the common water-plant of the Nile, is simply a hollow stem open from end to end, and pierced with a few finger-holes; it has been played in Egypt for thousands of years. This may is the origin of the entire flute tribe, also of all the flue pipes of the organ; the venerable instrument is still played in Cairo. Almost as old is the Zammah in which pipe the arghool (striking) reed is inserted. It is the origin of our clarinet; when the reed is made with double sides it appertains to the oboe family. The transverse flute

came early into use; whether this is to be regarded as the true mlaylavlos of the Greeks, or whether this designation referred to another type need not be critically discussed. Although few examples are extant there are specimens recovered from the ashes of Pompeii, and the British Museum presents an example obtained from Halicarnassus to which later reference Besides the statements of Herodotas, Strabo, Diodorus Siculus, Plato, Lucian and Pliny, who tell us much about Egypt, its arts and music, a number of Greek writers describe the prowess of their native finte players. The professional ablantal and tibicines were esteemed and highly paid artists, indeed some had statues erected to them following their success in public competitions. As the instrument and its capabilities developed, many of those produced became works of constructive skill and artistic ornamentation, fetching enormous prices. Lucian says that Ismenias of Thebes gave a sum equal to a thousand pounds for a flute at Corinth. Lamin so fascinated her admirers that a temple was erected and divine honours paid to the felicitous flautist. Not only are the names of some of the renowned players preserved, but those of celebrated makers have been recorded, as that of Theodorus mentioned by Plutarch.

The four flutes discovered at Pompen, now in the Naples Museum, arrest attention in connexion with the recent Meroe find, inasmuch as some identical features are presented, features associated with no other specimens remaining, viz., the revolving rings or broad bands for temporarily closing the finger-holes of notes not wanted in the particular piece about to be played. These Pompeian relics have an inner tube of ivory covered by a bronze exterior; the ventages number from eleven to thirteen. As we do not possess enough fingers to close all these holes (in order to obtain the fundamental or lowest note of the tube) some method of applying artificial fingers had to be contrived. The invention of such a device is ascribed by Pausanias to Pronomus, a Theban. This consists in placing over the ivory lining a number of sliding or revolving rings which could be turned round at will. The inventor claimed that by this mechanical device he could play in any of the principal modes on a single flute, instead of requiring specially constructed Instruments for each particular scale. It was an ingenious thought, anticipating the spring pad key in use in to-day's wood-wind instruments; this latter mechanical device came into use in the early sixteenth century. It may be mentioned that, in the four Pompeian flutes, the intervals provided with these closing rings are not the same in all the examples; one possesses six rings. Very remarkable is a ring in one case having a second hole bored at a distance a little lower; it probably yielded an enharmonic interval of a quarter of a tone.

In setting out for inspection these Merce fragments by ranging them on siender wooden rods fastened to a side frame, it must be understood that no attempt has been made to piece them together as they originally existed. We are not sure as to the length of this type of flute, and a glance at the diameters of the pieces will show that they belonged to different instruments of varying size. The design has been to mount the portions in a convenient form for preservation, so that they can be readily seen and identified in

the descriptive remarks which follow.

Like the Pompeian find, the materials are ivery and bronze; although buried in the ground for 2000 years they have to a considerable extent defied destruction. A qualitative analysis of some fragments shows that the main portion of the metal was copper, with a considerable amount of tin, and there were traces of iron, magnesium, and mickel; probably these latter metals were impurities, and not deliberately added to the alloy. No doubt the alert makers and players had found that ivory was superior to the favoured sycamore wood, in that the moisture from the breath of the player did not cause the instrument to swell, a defect inseparable from wooden tubes. The bronze is still singularly hard; though covered with an olive green oxide and earthy incrustations, it is quite difficult to file. The ivery is very brittle, and unless tenderly handled crumbles to a light brown dust The bores of the ivory tube and that of the outside bronze are quite true rounds, perfect in their lathe turnings, as tested with callipers. The inner ivory, like the bronze covering, must have been made in sections in order to slip on the revolving rings, and provide a socket for the next portion to fit into. In fact the flate was made in joints just as we construct them now for convenience in carrying about. It may be observed that in putting the instrument together, by changing the position of the several pieces, it was possible to alter the disposition of the finger-holes, and so vary the order of the intervals; the instrument might thus be arranged to suit some particular mode. Judging from the slightly conical outlet pieces preserved, the Meroë fragments indicate five instruments, but there may have been more now broken up and perished. The pieces vary from three and a half inches to under an inch in length. In several examples the round clean cut ends shew that such was the original form, strengthening the impression that each section was designed to fit on to another; certainly the flutes were not made in one piece as were the more ancient instruments. The inner bores, still intact, are from seven-sixteenths to ten-sixteenths of an inch; the bronze covering is of course adapted to fit the varying ivery lining.

The finger-holes are of three types, first round, measuring five-sixteenths to seven-sixteenths; secondly, rectangular oblong, five-sixteenths long by two-sixteenths to four-sixteenths in breadth; thirdly, in an ivory fragment a curved hole having the form of a comma stop in printing; it is eight-sixteenths long, and three-sixteenths at the rounder head, the other end of it comes to a sharp point as the bottom of a comma. Both rectangular and round holes are not found in the same pieces. It would thus seem that there were two main types of finger-holes, but without possessing a perfect instrument for inspection, this cannot be determined nor is it quite clear what was the distinction in effect between round and squared holes—unless the latter bould be more easily half stopped to produce either large or small intervals. In old hautboys can be seen two small holes drilled parallel for the finger to close both, or only one, for chromatic intervals.

What is the chief and remarkable feature in these particular flutes is

the evidence of the revolving ring turning on the tubes; this may be identified on several of the fragments by the small pyramidal-shaped projections or lugs by which these rings could be readily turned. The rings ran loose on slightly grooved reductions made upon the surface of the ivory Their office was to close the finger-hole of a note not wanted for use and foreign to the scale or mode of the piece intended to be played. When the hole in the ring and that in the ivory body of the flate corresponded, the note provided was available for the player's finger. But when he had to perform, or purhaps was actually playing in a piece in which this particular interval was not used, he turned the ring partly round, and shut off the hole; thus a finger was free to be used elsewhere. It is clear that this ingentious piece of mechanism made the flute more useful for general purposes. The action anticipated that of the slider working in an organ soundboard. When the stop controlling this is drawn, the hole in the table of the wind-chest and that of the slider coincide; on the player patting down a key, the pallet is opened and wind passes up to the super-imposed pipe. Much the same plan was adopted in the Hydraulus organ of the Romans.

On consideration of what has been said, and a glunce at the mounted Meroe flute fragments (or photograph) the conclusion come to must be that, thanks to the Liverpool University Institute of Archaeology, with congratulations to Professor Garstang on his successful exploration, we have obtained for England specimens of the exceedingly rare Bombyx flutes

of the imeients.

This is not the occasion to enter into a description of the Greek scales system (modal we now term it) each of them with its individual succession of intervals; nor the development of the diatonic, chromatic, and enharmonic scales from the ancient pentatonic form. Nor to discourse on the employment of the tetrachordal method of building up a ladder of sounds in which the tonic appears in the middle of the scale, not at the bottom as with us; nor the intonation and treatment of the complex Pythagorean fourth, an interval subject to alteration. It is enough to observe that each of the Greek modes presented a character of its own incidental to the order of scalar intervals. According to the succession in which the notes were placed in their vocal music, so the design was to reproduce just those required, and no more on the flute, when that popular instrument was used to play with and reinforce the voice. Various were the tone qualities and many were the names attached to the old Greek flates. On sculptures and early illustrations will be noticed pipes having projections along the There is little doubt that these represented plugs placed in the finger-holes to stop-off notes not then needed; they could be taken out and readily replaced. It was a stroke of genius on the part of the Theban musician, circa a.c. 300, to invent the ring system and thus, as he boasted, to play on the same instrument music in the Lydian, Dorian and Phrygian modes. The rings running round the surface of the flute together with the little lug projections gave the instrument the appearance of a silkworm with its short legs; hence the designation βόμβυξ.

It will be asked, 'How were these flutes blown?' a question that cannot be absolutely determined. They could hardly be lip blown by the breath across the open top, as was the ancient Egyptian Nay—the diameter of the critice appears too small for that method of sound production. The notes could have been evoked by the use of a vibrating reed put into the month end, or inserted sideways in the tube, as is seen in some sculptures. But there is another method of making them speak viz, from a month-hole bored in the side, in fact much as takes place now through the embouchure of the transverse flute.

It has been asserted that the side-blown flute is of comparatively modern invention, indeed that Germany of the sixteenth century is the place of its origin. Not so. On two of the splendid marble Topes in India are to be found representations of players with the side-blown flutes—vide Rawlinson's 'Tree and Serpent worship.' One of these monuments dates before Christ, the other early in the Christian era-

But we have still older evidence. Mr. Christopher Weich in his erudite and most valuable work on the flute tribe. The Recorder (1911, Fronde). calls attention to an exhibit in the Room of Greek Roman Life at the British Museum. Here can be seen fragments, put together, of a flute found in a grave at Vistalik, Halicarnassus, by Sir Charles Newton during the time of the Crimean War. It is depicted and described at page 248 of Mr. Welch's book. The inner tube is of ivory with an outer casing of bronze; unfortunately little of the original remains. It seems to have been made in portions; either slid in over the ivery lining, or the sections socketed together. Impossible to say if the sections were movable the surface being throughout on one level, rings certainly could not slide up and down over the ivory; there is no indication of the convenient lugs. Towards the end is placed an ivory mouth-piece slightly raised above the body of the tube, and possessing a rounded hole by which the instrument was blown; the device and mode of playing is almost identical with to-day's transverse flute. The length of the instrument as now put together is twelve inches; its original length is uncertain.

On the shelf at the side of this Greek relic are two flutes in fair preservation, No. 522, from the Castellani Collection. They are of bronze and appear to have an ivory lining. Here again it may be noted they have been made in sections; whether any of these are independent portions intended to turn round and so operate on holes beneath cannot be determined owing to the encrusted condition of the instrument. There are no signs of lugs on the bronze covering. Each flate has five finger-holes; like the Halicarnassus example they have superimposed on the top a mouth-piece, here of bronze representing the head and bust of a reclining Macnad. The mouth-end of one tube is stopped, the other is broken and cannot be determined. They are labelled A Pair of Reed Pipes. Although a small reed cut in its original matrix could be inserted in this hole, it is pretty certain that it could also serve as a direct mouth embouchure. However, in any case the pipe must have been held sideways to play.

Here then are preserved specimens of the πλαγίανλος family of flutes, a type often mentioned by the classical authors. Caspar Bartholinus in his diaborate and interesting work De Tibris Veterum (Amsterdam, 1679) says that players on the plagrandos 'modos vocis regebant,' indicating a method of governing the modes. He also states that the Bombyx was the longest of the flutes, quoting Aristotle and Pliny, who declare it was the most difficult to fill with breath, which would doubtless be correct if a reed was used. Quintilianus writing of this tihia speaks of the adjustable finger-holes 'Forauma alimu clausis alimn species.' Cicero alludes to the changing keys in 'Quam varies canendi modos.' Hosychias, a late Alexandrian writer, mentions the 'Pars tibias quae ad os admovetur.' And Pollux declares they were played with 'arundinis foeminae specie.' Was this the single beating reed of the old Zammah, in distinction to the later double reed of the oboe type?

Mr. Welch in his book, p. 209, prints a passage in Greek from Arcadins quoted by Salmatius, Exer. Plin. 84, of some significance as to the adjusting of the movable metal encircling bands. The text is somewhat obscure, but it may be gathered that the closing rings could be slid round the surface; the employment of the word στρέφωτες distinctly indicates that they could be turned round. These citations are suggestive. Whether the Merce flutes were played from a side hole, and without a reed, cannot positively be determined. We might know better if we were certain as to the true length of the instrument; there is a limit to satisfactory note production in small tubes blown from a side embouchure. In all probability

these flates were reed blown.

The four flates recovered from Pompeii, now reposing in the Massum at Naples, supply a measure of evidence worth consideration; it is apparent that their construction closely approximates to that of the Merce examples. They have an inner tube of ivory with a bronze ensing and what is more important, they are furnished with the revolving rings, here believed to be of silver. If a reed had been inserted in the bulb-shaped mouth end, this, being a fragile tongue of wood, has perished in the long centuries while it lay after the eruption of Vesuvius. The length of these fintes is given as twenty-six inches; with their small bore (three-eighths) it would be very difficult to produce notes of any strength of tone. But with a reed, especially a double reed, it would be as easy as to play the teneroon—an old bassoon an octave above our bass orchestral instrument. The lowest note obtained would depend upon the staffness and length of the reed employed in conjunction with the column of air set in vibration. If a reed was used, then the Meroe flutes would full into the category of the oloc family, Pliny speaks of the instrument as possessing 'lingulas' is, tongues or speaking reeds) et foramina "(holes). There is a remarkable passage in Horace which perhaps affords some clue: -- Ars Poetica, l. 202-5, Tibia non, ut nunc, orichalco vineta, tubacque Acmula; sed tennis simplexque forumine pauco Adspirare et adesse choris erat utilis. - The flute was not as now, bound with (hard I brass, and rivalling the trumpet; but being small and plain was useful to blow with its few holes to assist the chorus. This comment on the distinction between the old soft simple flute, and the (then) modern one bound with metal, striving to imitate the tone of a trumper, is indeed significant. To some extent this stridency would result from the employment of a reed, and a considerable breath force. Well might the players need the use of a capistrum band to protect their cheeks from the internal breath pressure. After certain experiments with an arghool reed it was the settled opinion of Monsieur C. V. Mahillon, the well-known Belgian instrument maker connected with the Brussels Music Museum, that a broad double reed was used with the Pompeian flutes; his conclusion has not been controverted. Incidentally it may be observed that, considering the great length of this set of instruments in the case of the one possessing fifteen finger-holes, and apparently furnished with five closing rings, owing to the distant spread of the holes, it must have been very difficult to reach and stop all when required to be closed by the fingers. In the Museum of the Capitol at Rome is a mosaic of the imperial period representing a tragic masque; the players have flutes like those found at Pompeii, seemingly furnished with double reeds. The messac was found in 1828 in the course of some excavations on the Mount Avectin.

Corinth was the city where the best and most artistic flutes were made, but Alexandria ran it close for fame. No slight combinative skill was displayed in the planning, gauging the bores, and putting together the flutes; the ornamentation, inlaying, and finish of the instruments seems to have been as fine in its way as was the work of the Italian lute makers of the seventeenth century. There are many records of the high esteem in which these Greek productions were held, and of the enormous prices paid for them. If there were any good local Meron players, as apart from the Greek immigrants invited to go to the luxurious city to exhibit their skill, it is very unlikely that they could obtain instruments of this advanced character; they would probably be content with their home manufacture. The visiting musicians were doubtless Greeks, the theorists of which land had perfected the older Egyptian musical system, and the craftsmen were skilled instrument makers; of course they brought their favourite flutes to the Upper Nils city.

The fragments of the five examples shown in the frame (Fig. 1) are placed together to make up an uniform length of about ten inches. What are believed to be their outlets, rounded comical slightly bell-shaped pieces,

are put to the right.

No. I consists of five pieces. There is one large round hole in the second portion, and two smaller in the next; some of the ivory lining still remains attached. There are no holes in the next portion but a slight crack will be observed running along the top; this may indicate that the method of construction was to bend round and join up lengthways the pieces of the bronze covering.

No. 2. A similar break is seen in the first portion of this example. The reduction of diameter at the left end may indicate that it was intended for a turning ring to be worked here. The next portion discloses in its middle the ivory lining intact; as it shows no finger-hole, it must be looked upon as a socket-joint to unite two portions of the flute. The conical outlet follows:

No. 3 consists of six pieces of much importance. On the surfaces of the first, second, third and fifth pieces will be seen inverted A shaped protuberances. These are the lags or ears fastened to the tops of the revolving rings; they form a sort of boss for the fingers to grasp and so turn easily when required to shut off a note not wanted; the closed dome-shaped

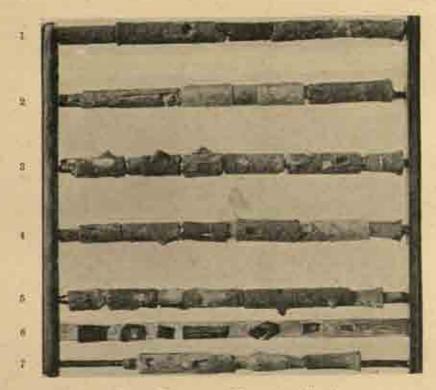


FIG. 1.—FRAUMENTS OF FLOYES PROM MEROE.

spring-keys on our wind instruments now serve an identical purpose. It may be mentioned that in certain of the brass instruments of Austrian bands circular valves are employed instead of pistons or sliders. It will be noticed that in this example some of the holes are rectangular, and that they differ in size, as do the round holes. The inference is that the Greek makers well recognized the necessity of true intomation, perceiving that on the precise size of the ventages depended the tonal accuracy of the notes produced. The larger the hole, the sharper or higher was the note; this method of graduation secured just intonation, on which the Greek theorists laid great stress. Holes in the first and fifth pieces remain open. The others are closed.

No. 4 consists of five pieces. On the first are found two logs with rings, though not in line; the first has its squared hole uncovered. Then comes a joint followed by another larger hole that must have remained open always; beyond that is the second lug with its ring hole covered up. The next two portions exhibit squared holes open, they are of different sizes. Then is placed a piece with a portion of the ivory connecting joint still

remaining.

No. 5 consists of five pieces. The first shows trace of a lug broken off. The next displays quite a long piece of its ivory lining. The third exhibits on its face two small round holes; perhaps the corresponding holes are in the every beneath, but the rings have got turned round and will no longer work, so these under-holes do not appear. The fourth and fifth partions now attached together larve each a lug on them, one round hole in the bronze is in advance of this running from it is a longitudinal crack. The ringed formation is here very clear, the respective round finger-holes remain open

just opposite the lugs.

No. 7 consists of fragments of ivory only. If these ever possessed a bronze exterior it has disappeared; there is certainly a green metal stain on the socket of the first piece. Here is a round finger-hole, and then a remarkable ventage somewhat in the form of a comma stop (7). If a guess may be made as to the purpose of this curiously shaped hole, it is that it was intended to serve a double purpose. If left entirely unclosed, it would yield a whole tone note; by graduating the surface covered (more easy to accomplish than with round or squared vents) a semitone or a smaller enharmonic interval could be obtained. The remarkable eleven-holed short reed-blown flute found in 1888 in the cemetery of Akhmin, the ancient Panopolis, was furnished with an ingenious method for obtaining this small interval certainly used by the Egyptians long before the time of the Greek There is an enlightening passage in the old French writer Solomon de Caus (1614) as to skilled players covering the holes little by little :- Peuvent les hauser ou baiser à leur plaisir par le moyen des doibs (sic) qui bouchent lesdits trous peu à peu. It seems that this method of change of note, and 'justness' has obtained from time immemorial. To-day our players obtain small differences of intonation by the mampulation of their lips. Old hautboys had for use two small holes side by side, instead of one large one for use as required. The next piece on the rall is a piece of ivory neatly graduated to a curve; the outlet with some slight ring marks cut round it complete the examples on this rod.

On the lower cross rail of the frame (No. 6) are placed three fragments of the bronze, the incrustation partly filed off to show the bronze surface. Then a piece of a smaller pipe with the jointure slit shewing, a broken little section of the flute disclosing its ivory lining; finally two fragments of the ivory, one stained green by the metal that had been above it, the other now

cleaned.

It should be pointed out that the lugs have small pin-holes through the top. Was this to emble them to be fastened together by tying to a rod running along, so that all the closing rings could be turned at the same time?

The little wooden frame on which the pieces are strung is deposited in the Museum of the Institute of Archaeology attached to the University

of Liverpool.

There seems every probability that the flutes, which these relies represent, belonged to a Greek artist bringing with him for performance at Meroe his own improved and esteemed instruments. They are not likely to

have been made locally,

The possession of these most interesting fragments from Meroe. recovered from the soil of the oldest of the civilizations, if it does not add a fresh full chapter to the historical account of the flute family, yet supplies valuable evidence of an important development in the descent of that delightful and most ancient instrument.

T. LEA SOUTHGATE.

PARCHMENTS OF THE PARTHIAN PERIOD FROM AVROMAN IN KURDISTAN.

PLATES L-III.

AVROMAN is a town in Persian Kurdistan lying close to the Turkish frontier between the sources of the Lesser Zab and the course of the Diala River some distance to the north of the highway from Bagdad (say Ctesiphon) to Hamadán (Ecbatana). Near it in a cave in the mountain called Kuh-i-Salan, a peasant found about the year 1909 a stone jar hermetically scaled, in it were decayed millet seeds 1 and several documents. These passed from hand to hand and some were lost, only three have survived; two, which being Greek most nearly concern us, are almost perfect, they have only suffered a certain amount from wear and from the grawing of mice; the third written in an Aramaic script which has not yet been deciphered is said to have been much larger when found; what is left has been a good deal torn and is patched with modern leather.



DYACHAM OF IL REFORE COMPLETE CAROLLING.

Mirza Sa'id Khan, an English-tmined doctor at Sinna, the largest town in the neighbourhood, heard of the find and recognised that it was probably of historical importance. He made great efforts, even at the risk of his life, to secure the documents, and finally succeeded, although their possessors, in spite of the careless way in which they had kept them, were not at all inclined to part with them.

It is curious that Theophysicus, Hist. Plant. VIII xi 6, remarks that millet keeps particularry well in Mema.

Dr. Sa'id Khan came to England in October, 1913, to renew his professional knowledge and to obtain a fresh supply of medical stores. On his arrival he sent the parchiments to my colleague Professor E. G. Browne, who entrusted them to me and I made a preliminary communication about them to the Society on November II. Since then Dr. Sa'id Khan's friends adopted the view that he was not justified in depriving his philanthropic work of the aid which it might receive from the price that so great a rarity as this find might fetch, but as long as he had control he kindly reserved to me the right of publication. The documents were sold at Sotheby's, but happily they have found a home in the British Museum. I am most grateful to its authorities for letting me carry out my project of publishing them in this Journal.

DESCRIPTION.

The two perfect documents are irregular rectangles, the height being greater than the breadth: No. I. measures about 5.6×9.5 in. (14×24 cm.) No. II., 8×10½ in. (21×27 cm.). Each contains two texts (A and B, more or less displicates, see below) and by this their shape is conditioned. Only the upper text of each document has been reproduced, very slightly less than natural size, for the purposes of this article. The whole documents are to be published in the best possible facainals in the 1915 part of the New Palaeographical Society. No. III. now measures 6×3½ in. (15×95 cm.) If it is the lower of a pair of displicates the original sheet must have been 6×7½ in., very much the proportion of II. The wide margin below looks like the original bottom; that above is wider than the normal space between the lines and has no tails coming down into it, so that the cuttang was made along some kind of gap in the text.

On the back of L there are 5 lines of writing in the same alphabet as III but a little more upright (v. Table II, Col. IV.): it is the same way up as the Greek and behind the upper part of I. A. Two more lines run parallel to these, but the other way up at the back of I. B, about 3 in. (7:5 cm.) from the bottom. A transverse endorsement runs upwards about 11 in. (3 cm.) from the edge on the left as you look at the back. These endorsements ought to contain the same proper-names as the Greek and to render the riddle of the alphabet soluble, but they are too much rubbed to be any use except to shew that the third document is not entirely separate

from L and II.

When they reached my hands documents I, and III, had been completely unrolled, though I, still shewed the folds into which it had been pressed. No. II, was as the diagram shews it, the lower half unrolled, the upper undence on the left side, but still tightly rolled up and held by string on the right side. The string could not be removed without cutting it or breaking two mad seals, of which one had lost all its surface; upon the other, though it was much disintegrated, there could still be distinguished a device something like an E within a border of lines. Before proceeding to open it I had the document photographed. Assuming that a perfect record of its

original appearance had thus been secured, I cut the string and unrolled the upper portion. As a matter of fact the negative had been unsuccessful and the operator, who had never failed me before, had omitted to inform me at once. Still the diagram gives the arrangement in all essentials.

The material of all three documents is parchment, or perhaps leather, now dark yellow or brown; it is not very well prepared; the writing has had to avoid certain rough places in the skin and the hair has not been perfectly removed. From time immemorial διφθέραι have been the natural writing material. We hear of them in Ionia, among the Jews and among the Persiaus. Worse than the burning of Persepolis by the accursed Alexander the Roman was the fact that in it perished the precious works of Zerouster, written in golden ink upon prepared cowskins. Ma Twan-lin and the other Chinese authorities mention that the inhabitants of 'An-si (Parthia) write horizontally upon skins."

In view of this general use of skins for writing it is remarkable that so few have survived from early times: Professor Flinders Petrie tells me of a leather roll dating from the twelfth Egyptian dynasty, now in Berlin; and there is an Aramaic document on leather from Elephantine. Otherwise the earliest written pareliments found hitherto are the well-known pages of Demosthenes, and of the Cretes of Euripides, both referred to the second century A.D., but I do not know whether Tarkistan has yielded anything older.

Documents I and II are each in duplicate. The top or A version was in each case rolled up tightly and bound round and round with string passed through the holes in the blank space between the two versions. These holes can be clearly seen on the facsimile of II. A; on the facsimile of I only two or three show as the mice have eaten so much away just along this line. The seals of the parties and witnesses were then affixed in token that the 'close' version A (if I may so call it) agreed with the 'patent' or B version. The latter remained always accessible, but in case of doubt the string could be cut in the presence of proper authority and the 'close' version opened to prove or disprove any suspected tampering with the 'patent' version.

This matter of the 'close' and 'patent' versions can best be taken in connexion with the general form in which the documents are drawn up. It may be mentioned here that in the case of I the device has failed to prevent fraud, or else a change has been made by consent without the parties troubling to indicate it in both versions; for whereas the sum named in the close version A is thirty drachmas, in the patent version B thirty was written but altered to forty. The alteration is so obvious that it can hardly have been meant to deceive anyone. Other differences may be discussed later when we come to the purport of the documents.

A Resumat in Nour. Met. Asiat. 1, p. 218.

British Museum, Add. MS. 34475(1); New

Palamprophical Soc 1, 2

E. Suchut, Aramaische Pappens u. Ostrakis une Elephantine, p. zxviii. P. 13443, c. 500 u.c.

Bartin P. 13217 : Berliner Klam Gerlents v. 2, p. 73 app. ; W. Schuhart, Pap. Gr. Berol. 30 a ; New Fat. Soc. 11, 28.

The actual hands are of very great palaeographical interest in view of the extreme rarity of non-Egyptian Greek writing other than formal inscriptions. Though the few specimens we possess fit fairly well into the series of Egyptian documents they generally have something unusual about them, but as they come from different parts of the Greek world there is no characteristic that they have in common. So our documents are neither of them quite like Egyptian writing. As far as place goes they ought to be nearest to the pieces from Seleucia in Pieria or Myra in Lycia, but both these belong to the end of the second century a.c., so no comparison is possible. In regard to date the first century a.c. is not very well represented even in Egypt, but the Herenlanean Papyri are generally referred to it and it is among these that, as Sir Frederic Kenyon has pointed out, at any rate I. finds its closest analogues (see Table I.)

For, indeed, the writing of the most part of L is rather to be classed with book-hands than with cursives, as the letters are very little run together and are fairly carefully, though not elegantly, formed. Among the Tables of Alphabets given by Sir Edward Maunde Thompson and Professor Gardthausen, it comes closest to those taken from Volumina Herculanensia, and still closer to the alphabet of P. Nap. 1429 as given in Hayter's plates." Dr. Hunt has pointed out to me that P. Oxy. 236a, to dated 64 R.C., offers decided resemblances, especially as regards the peculiar e with the top turned back and a sharp angle below, but on the whole the Egyptian piece is a good deal more cursive; in L II with a detached stroke to the right is distinctly Prolemaic, " but the rounded a, which Kenyon calls a test letter, is rather Roman, and so is the ₹. The retention of an epigraphic ₹ for the numeral occurs in the Flinders Petrie Papyri.12 The hand which wrote the line after the witnesses' names in I. A. with perhaps the corresponding part in L B, and which altered thirty to forty in B, is much less careful and differs enough to deserve a separate column in the table of alphabets, but I am inclined to think that the two hands are really one. It is curious that

The changes is the betters used on Parthian coins seem due mostly to unintelligent copying by a series of engravers rather than to the development of Greek writing as practically used in Parthian lands; see J. de Morgan, Rev. Arch 1912, pp. 1-31, 'Rindo sur la décadence de l'écriture grecque sons la dynastie des Arsachies'; but one or two details result our documents. See also W. Wroth, Catalogue of Greek Cuius in the British Messeen; Furthin, 1903.

to Palmogr. Nor. ii. 181, date.

^{*} P. Lond. (Brit. Mrs.), iii. 1178, Pl. XI., L 69 sep. ; of Mittels-Wiloken, Grumfriege and Chrestonathic der Pappraskunde, I. ii. p. 184.

Introd. to Gr. and Letta Palacoge, (1912), p. 142 (No. 2).

^{*} Gr. Patersor, 2 Tal. L. Nov. 10, 11.

[&]quot; Thirty-six Engravings of Texts and Alphie-

bets from the Herminium Fragments, Oxford, 1891, No. 3, Demetrii, in Apereix Pelpasses of, Photogrophs of Farminius... in the Bellerian Library, published by the Oxford Philalogical Somety, 1889, vol. vi. No. 1243. This shows the rounded u. but Kenyon 1*The Palasogn of the Here. Pape, Possohr. Ph. Gompers dropher, p. 376) some to deny that this occurs at Herondaneum.

²⁶ Onyrhynchus Pap. (I. p. 140, Pl. V. (p. 83).

Nonething like it appears on a terradrachus of Phrahatos IV., B.H.C. Postkie, Pl. XVIII.

¹⁰ P. Feir., it, introd., p. 30, No. IV, 11 (p. 14), Pl. IV, a. II, 4, 7, c. 255 n.c., 1 ef. F. W. G. Fast, J. H. S. xxii, p. 145; also P. Hoi, i. 65, i. I. Camb. Univ. Lib. Add. MS, 4465.

1	IABLE I.
Hand i, ji	we approxy, at about the an educate and age, as ar so as
No. 10 Control of the Pro-	a o ocolo o ocolo o ono o on o ocolo o o ocolo o ocolo o ocolo oco
	Bu Be Be Op'
BUBA	BDDa Di Bo"
rrr	ringre my my
A 4	1 0 00 00 00 00 00 00 00 00 00 00 00 00
£ 2: E	
2.2	25
ни н	ע שבאפישור שלים ואף שבי איני שלים שבי שלים שבי שלים שבי שבי שלים שבי
a e	O D CANCEL CO.
101 1	יון יון און און און און און און און און און א
KH H	א אים איני איני איני איני איני איני איני
AA A	المستد ال
MM	หกกลักผ่านี้กำ กก กอกระ กผู้
NHH	לשטע על אינון לון שושם של לשטע צע עץ או
TI	I To Two
044 0	
пи па	ת דום דרש לחו דום דום דום
p µ p	M. M
***	77
tuneral .	condication of a diagraph and
CIC E	टक्किलक्ष्यक क व्यवस्था
TT 7	שור צד פר פר וויי ודייונים
777 17	YI YA YY PWE TO DIFFE W
44	الله الله الله الله الله الله الله الله
XX	x 1/45 /20 /20
*	+ h " + 15"
uı w	w wo with with we won
0.000	The state of the s
Alphabets and Groups of Letters, combined and uncombined.	

the carefully written I leaves out a adscript while the later and more

careless II. puts it in.

Of H. Dr. Hunt writes that 'it has more archaic characteristics, which is singular as it is a couple of generations later. The tall w is thoroughly Ptolemaic, also the very shallow #12 The man writes on (and on in e.g. ἐπιφανούς) as it was written 100 years before, cf. e.g. Tebtunis Papyri, i. Pil. III. and VII. The η is very remarkable, being merely in the form of a half circle. I do not remember having met this before; it is developed out of a which is again a good Ptolemnic form and which he sometimes writes properly, e.g. in κληρων, I. 8 (twice), but mostly the second curve is slurred over; e too is often very negligent. The linking of the r in yearsias, A 8, is another characteristically early touch, cf. e.g. Tebtunis, i. Pl. III 1. 10. The

Tebtumis papyri mentioned are dated 118 and 113 R.C.14

And yet the whole effect is not at all Ptolemaic and on trying to find analogues for the ligatures exhibited in the table, I have been singularly unsuccessful. The method of joining the letters is quite unlike the line along the top which links even such a letter as a on to the following in many Ptolemaic hands. The table shows how \$, \$, \$, \$, \$, \$, \$ and \$\phi\$ were incapable of really joining on to the letter following, exceptions are θη, θμ, ρω and up: in general, letters only join when they fit together without the need of a connecting line. But on the other hand e makes an astonishing series of ligatures with almost every letter and α; η, λ, ν, σ and τ are almost as milaptable. Some of the shapes recall forms which we do not meet in Egypt until the Byzantine period, e.g. e with no cross stroke in ligature and especially the v. This latter only once occurs in the complete form, alsewhere it is either " or "; it recalls the Ptolemnic in the way its last limb sticks up, but in both forms the first limb is quite different. The η is like no n that ever I saw. The final impression left upon me after trying to find any similar hand among the facsimiles accessible to me is that we have here a representative, very probably degraded, of an independent branch of Greek cursive, and it is not quite inconceivable that in some ways it is nearer to the ancestor of the vollum minuscule than is the Graeco-Egyptian cursive. So much for the outer form of the documents.

In the following texts mistakes and misspellings of the scribes have not been eliminated or corrections suggested, because such corrections could not have claimed certainty: I have however supplied letters omitted by the scribe of II, in three cases. The translations aim at reproducing the confusions of the original instead of forcing a particular rectification of them: the comment on p. 51 attempts to make something of the resulting nonsense. When we were going through the documents together Professor Burkitt and

Mr. Bell contributed readings that I cannot now identify.

Phrahates III. B.M.C. Farther, Pl. XI. 1. 5 d show to A similar or in Arabbelous (Schulmet, have met.

[&]quot;M is sometimes II on Parthian coins, a.y. Pop. Or. Borol. 8 c, 104 m.c.). This and it. 5 d show the nearest approach to our q that I

- Α. 1 βαιτιλεύοντος βαιτιλέων 'Αρισίκου εξεργέτου δικούου έντφανούς καὶ φιλέλληνος, καὶ βαιτιλισσών Σιάκης τε τῆς ὁμοιτατρίας αὐτοῦ ἀδελφῆς καὶ γιακοκός καὶ 'Αρισιζάτης τῆς ἐτικαλουμένη(ς) Αὐτορά τῆς ἐγ βαιτιλέως μεγάλου Τεγρένου καὶ γιακικός αὐτιοῦ]
 - δ καὶ Αζάτης τῆς ὁμιπατρίας μότοῦ ἀδελφῆς καὶ γενιικός, ἐτως εκὶ μηνὸς Απελλαίου, ὁν ὑπαρχείο Βαισείροις πρὸς σταθμώ Βαιθαβάρ τοις ἐν κόμη Κωπάνει, ἐπὶ τῶν ὑπογεγραμμείνων μαρτέρους, ἐξω μολογήσατο καὶ συνεγράψατο Βαράκης καὶ Σωβήνης οἱ τοῦ Μας, φόρρου εἰοί, εἰληφέναι παρὰ Γαθάκου τοῦ Οἰπάνον ἀργυρίου ἐπισή.
 - 10 μου δραχμός τριάκοντα, τειμήν άμπέλου τῆς οδοης ἐν κώμη Κωπάνει τὴν ἐκονομαζομένην Δαδβακανράς, τὸ ἴδιον μέ ρος, τὸ ἐπιβάλλον αἰτῷ μέρος παρὸ τῶν συνκλήρων μετὰ ὕδατος καὶ ἀκροδρύοις καρποφοροις τε καὶ ἀκόρπαις καὶ εἰσόδφ καὶ ἐξόδφ καὶ τοῖς συνκίρουστα εἰς αὐτὸν τῶση- ἐστω τὸ ἐν μέρος Βαμάκει κ[αὶ]
 - 15 τὸ ἐν μέρος Γαθίκει, ἐψ΄ ῷ παραλαβῶν ὁ ὁηλουμενος Γαθάκης ἔξει τὴν ἀργυρώνητον ἄμπελον εἰς τὸν ἄπαντα χρόνον, αὐτός τε καὶ τὰ ἔγγονο αὐτοῦ, τελῶντες κατ' ἐνιαυτόν κοινῷ τὰ γεγραμμένα ἐν τῷ παλαιῷ στογραφῷ πάντα ἀπὸ πλάρους, καὶ ρὴ ἔξέστω τῷ Βαράκει, μηδὲ τῷ ἀδελφῷ αὐτοῦ, μηδὲ τοῦς ἐγγόνοις αὐτῶν, μηδὲ ἄλ-
 - 20 λφ μηθενί ὑτὲρ αὐτῶν, ἐγβαλεῦν τὸν Γαθάκην ἐκ τῆς ὁργορωνή του ἀμπέλου, μῷτε αὐτόν, μηδε τὰ [ἐγ]γο[ν]α α[ἐτοῦ]: ὡς ῶν ἐλ ἐγβάλη, ἡ ἄλλοι ἐγβάλλημένου μὴ καταστὰς ὁιεξά[ξ]η, καὶ μὴ καθα μὰ ποιήση, [ἔ]σται ἄκτρος καὶ προσαποτείσ[α ἡ]ν ἐλαβέν τεν μὴν ἔιτλ[ῷν] καὶ ἄλλας ἐπτείμου ὁραχμὰς [ἐ κυ]ὶ τῷ βασιλεί τὰς
 - 25 Ισας: είαν [δε κ]αι δ Γαθόκης όλεγωρήση την [άμπε [λον και μέ] που ήση αθτή[ν] ἐταφον, ἀποτειννείτω το α[έτο ἐτε]τειμον: κα[ί] τὰ έδωρ παρά άγδοης ήμέρας το ήμων και [τῆς έ]παγωγής νικτός τὰ ήμισν: μάρτυμες, Χασστρώης 'Ορκοδάτως, ['Α]τάκης Ύστοβώγου, Μα[μά]ἀτης 'Οχοβάγως (change of writing) και ερεών λέ, ελος α΄, άρτων κ.ν.

30 βαίς η, οίνου κοι [β και] Ικβάθρου δρ α.

27, and Hunt, pointing out that a does turn to the left, e.g. in B 2. [vii djenyeyës: I had thought of [sufrayeyës, but a break in the horizontal line of the aruntal latter does not seen to some in a v. Ball doubts the mark after exi-

mitting the v of vas, and thinks the break in v may be due to flaking off, but I ma still unconvinced.

29, apriir Ag'. Bell, partiapa A(fr;mi) e'. sAss. Hunt, sAis. a', Bell, A'.

PARCHMENTS OF THE PARTHIAN PERIOD FROM AVROMAN 20

- Β Ι βασιλεύουτος βα[στηλ] των 'Αρσηα κισήν εθεργήταν δικαίσ[α]

 ε[πτραιούς και φιλελλη[νος, και β]ασιλεστών Σιώνην το της δμ[στα]

 τρίας αθτού άδελφης και γινακώς κα[έ] 'Α[ρια][είτης της έπικαλ[ον]

 μένης Αθτομά της έγ βασιλέσε μεγάλου Τ(τγρά]κου και γιναικός
 - 5 και 'Αζάτης της δμοπατρίας αύτου άδελφ[ής κα] γυναικός, έτως
 εκτ' μηνός 'Απελλαίου, έτ ϋπαρχεία Βαισείρω[ε] τρός σταθμώ Βαιδυβάρτοις δι κώμη Κωπάνα, έπὶ τῶν ὑπογεγραμμένων
 μαρτύρων, Ερωμαλογήσατο καὶ ιτυνεγμάψατο Βαράκης
 καὶ Σωβήνης οἱ τοῦ Μαιφόρρου πὸοι, εἰληφέναι παρά Γαθάκου
 - 10 τοῦ Οξεάτου οἰοῦ ἀρχυρίου ἐπισήμου ὁραχμὰς τριά-(alteres lo τεκσαμ^α)κοντα, τει μὸγ ἀμπόλου τῆς οὖσης ἐν ε[ώμ]η Κωτάνα τὴν ἐνονομαζομένην Γανζακήν, τὸ ίδιου μέρος τὸ ἐπιβάλλον αὐτῷ τὰ
 έδιου μετὰ ἀκροδρύοις καρποφόροις τε καὶ ἀκάρποις καὶ εἰσόδω καὶ ἐξόδο καὶ ταῖς συνκόρουσαν εἰς αὐτὸν πάστε, τὸ ῆρι-
 - 1.5 σε Βαράκει και το ήμισε Γαθάκει, ἐφ' ῷ ταραλαβὰν ὁ δηλούμενος Γαθάκης ἔξει εἰς τὸν ἄπαντα χρόνον, αὐτός τε και τὰ ἔχχονα αίτοῦ εἰς τὸν ἄπαντα χρόνον, τελώντες κατ' ἐναν-[τὸν] τῶν γινομένων ἐν τῷ συνγραφῷ τώντα ἀπὸ πλήρους. [κοσῷ ʔ], καὶ μ[ῷ ἐ]ξέστω [τῷ Β]αμάκει μηδὲ τοῦς ἐγγόνως αὐ-
 - 20 [τοῦ, μηδὲ τῷ ἀδελ]φῷ, [μηδὲ] τῷ μεταλαμβάναντι τὴν ἄ[μ] [πελο]ν π[αρ' αὐτῶν, ἐγβ]αλε[ῶν μηδὲ] τὸν Γαθῶκη[ν, μηδὲ τὰ] [ἔγγο]να αὐταῦ: δε ἄν δὲ ἔγβο[λ]ῃ, ἡ ἄλλοο ἔγβαλλ[ομένου μὴ] [κ]αταστὰς διεξάξῃ, καὶ μἡ καθαρῶ ποκήσῃ, ἔ[π]τα[ε ἐκυρος] [κ]αὶ προσαποτείσει ἡτ ἔλαβεν τειμὴν διπλῆν κ[α]ὶ ἄλλα[ς ἐ]
 - 25 πιτώμα δραχμάς 1' καὶ τῷ βασιλεῖ τὰς Ισας ὁμοίως ὁξ καὶ τὰν ὁ Γαθάκης ὁλεγωρήση τὴν ἄμπελον καὶ μὴ ποιῷ αγι αὐτὴν ἔπαφον, ἀποτείσει τὸ αὐτὸ ἐπίτειμον ἔξει ὁξ καὶ τὸ ῦδωρ τὸ ἐπιβάλλον αὐτῷ μέρος μ[ετὰ τῶ]ν στυς[κλ]ήρω[ν], ἔγγυον δὲ καὶ στινέγδοται κατέστηστεν [Βαράκης καὶ Σωβήνης].
 - 30 Χοσστρόης καὶ 'Ανάκην' μάρτυρες, Δηνόβαζος Ορο[....]

 Μειριδάτης 'Οχοβάγου, Φραστης Συκυνηματος, Μαρζυ[...]

 ρης, διάσει δὲ καὶ ὁ Γαθάκης τῷ Βαράκιι ἐνβάθρου δρ. α΄, κρεῶν εκ (?) [...]

 (inter linear) κ[ν...]κε, [β]ους ἡ (?)

 άρτου κ' ν', οίνου κ' β' διάσει δε καὶ Βαράκης Γαθάκει ἀπὸ λην[οῦ τὸ]

 (inter linear) κα
 - 34 φύρα και απάρρυμα και τόα κ. .]τζην και στέμφ[υ]λα άγεματ[α].
 - 21, [relo]: r[m] abrur dys]mlq[ir, liell. | 12, speur en ()), Bell. | 29, Hunt pointed out that Bassiers is too short. | 34, es may be c'a. | s[. .]r(ur, Hunt.

- Α 1 βασιλεύοντος βασιλέων 'Αρσάκου εξεργέτου δυαίου έπυμανούς και φιλέλλησος, και βασιλισσών 'Ολεννικέρος, Κλ[το]πάτρας, Βασείρτ[α]ς και Βισθειβάνασος, έτανς ένος ένος ένος σταθμώς διακοσιοστού, έν έπαρχείαι Βασιρ[αόροι]ς πρός σταθμώς Δησακόις δε κώμης Κωφάνει, έπὶ τών έπαγχεραμμένων μαρτύρ[ων], έξωμολογήσταν και συντ
 - 5 γμάφατο Ασταμώνης Γαίκου έχου περά Δήνης Γαθώκαι δργερίου δραχ.
 μάς ποντίκοντα πότε τιμήν, καὶ δεδακέναι ἐν ψ[ειλο]φύται ἄμπελον τὴν ἐπικαλουμένην Δαδβακαβάγ στιν εἰνόδοι καὶ ἐξόδοι καὶ εδακτε τοῦς ἐπάρχουντι μετά τῶν συνκλήρων ἄρια καὶ γειτείαι ἀπό τῶν ἀνατολῶν μετά τῶν συνκλήρων καθῶς ἐν τ[η]ι συνγραφήνι τελέσανσι δὲ αἰεί κατ' ἐναυτ[ά]ν σκέλος ὁραχρήν μίαν,
 - 10 οίναι ποτίλας δύο, αρτ[ω]ν και. βαθς πάντε, κρειθώε δύω έπ[έσχε]το δὲ μηδόν τῶν πρυγεγραμμένων άθετήσεων, μήτε αίτόν, μηδέ τοὺς μεταλα[μβάνοντ]ως παρ' αὐτοῦ τρόπου μηδενί. Αραμασόης "Ιωδαβοχθ<ω>υ, Μιραδώτης Μιραβανδάκου, Γερ[όχ]ης "Αρδήνου κατέστησεν 13 "Αρθανθάτης Δαργάνου.
- Β 1 βασιλεύωντος βαυιλέων 'Αρσάκου εὐεργέν[σ]» δικαίαν ἐνιφανοῦς καὶ φιλέλληνως καὶ βασιλισσών 'Ολεονιείρης, Κ[λ]ουσάτρας, Βασείρνας, Βυσθειβάναπος, [ἐνο]υς ἐνῶς ἐνευμκοστοῦ διακοσιουντοῦ, ἐν κώμηι Κωφάνει ἐν ὑναρχείαι Βα[σ]ιραόροις πρῶς σ[να]θμῶι Δησακιδίδοις, ἐπὶ τῶν ὑναγγηραμμένων μαμπάρων, ἐξωμο-
 - 5 λογήσατο και συνγράψατο Ασπομάκης Γαάκου έχτι[κ] παρά Δήκης τοῦ Γαθίκου ἀργορίου δραχμός πευτήκουτο πέντε, καὶ δ[εδ]ωκέτ[α]ε [α]δτῶι ἄμπελου ἐν ψειλοφύτου τ[ή]ν ἐπικαλοιμι[έν]ην Δαάβακαβάγ [σέν] εἰστόδου καὶ ἐξόδου καὶ ἑ[δ]ασι τοῦς ἐπάρχουσι μετὰ [τῶν συν]κλήρου: ὁρια καὶ γειτείαι καθῶς ἐν τῆν παλαιῶν συνγραφήν τελ[έ]σου[σιν δ]ἐ κατ ἐνιαντὸν ἐμβάθρου.
- 10 δραχμής, άμτων κα, βαύε πέντε, σκέλοε δραχμήν μίαν σκέλος βεβαιωτής δι κατάστησεν 'Λοθάτης Δαργήνου' δε κ'αὶ πάρω ε έξωμολογήσετα βεβαισώσευ> δύο κοτύλας προγεγραμμένας: εξάξουτα[ε] δ' δ' τε πεπρακώς καὶ δ βεβαισών> τῆς, ἐὰν τις ἐμπονήθη τῆς πεπραμμένης άμπέλου τρόπου μηδικό μηδικό τὸ μηδικό παρευρέσει μηδεριά, εἰ δὰ μή, τῆν τε ἀθέτησεν εἶναι αἰτὴν ἀκύρην.
- 15 «[11] τὸν άθετήσαντα ἐκτείσειν ἀ[νεν] δίκ[ης] καὶ κρίσεως δραχμάς δαικοσίας καὶ εἰς τὸ βασιλικόν τὰς Ισας' μέρτυρες, 'Αραμάσδης 'Ιωδαβόχθου, Γερίκης 'Αρόήνωυ, Μεραδάτης Μεραβανδάκου.

All, Assentarity U.

6. [evo]pores, Hmit.

8, Spin sai perring Bell.

10, (widexs)ro, Bell.

13, Approvarus, Hunt.

HA, Aurandiares or . . . vor. Hunt.

11, by elal rapels, House

14, accept, the wis queer but certainly not a

15, A very digital, Ball,

PARCHMENTS OF THE PARTHIAN PERIOD FROM AVROMAN 31

THANSLATION I.

- What is identical in A and B is in large type: atherwise the versions run parallel, A above and B below: - is put where one version has nothing to correspond to words in the other. The division of lines follows B, the fuller version, but the beginnings of B, 5, 10, etc., in A are nowhed.
- 1 In the reign of the King of Kings, Arsaces, the Benefactor, the Just, the Manifest and the Philhellene, and of the Queens, Sisce his compaternal sister and wife, and Aryanate surgement Automa, daughter of the Great King Tigranes and his wife,
- n "and of Azate his compaternal sister and wife, in the year 225, in the month Apellacus, in the hyparchy Baiseira, near the station Baithabarta in the village Copania, before the witnesses hereunder written, acknowledgment and agreement were made by Barness and Sobönes, the sons of Maiphorres, that they had received from Gathaces,
- 10 the son of Oipates, in coined "money thirty (altered in B to forty) drachume the price of a vineyard situate in the village Copanis, known

as Dadbakanras his own share the share due to him ()

(own _____) with { water and } vine-stocks; both those in bearing and those not, and in-

gress and egress and all that pertain to (it: let the one part belong)

15 to Barness and * { the one part } to Gathaces, on condition that on taking possession the aforesaid Gathaces shall hold (the vineyard he has bought with more) for all time, he and his
descendants, { for all time | performing yearly { in common } the things { written } in the { old } agreement all in full

{[In sommon 1]}, and let it not be lawful for Barness or his

20 { brother descendants } or his { descendants descendants } or anyone { taking over the vi: { their behalf neventher } to dispossess Gathacos { of the rineyard he has bought with money either him } or his descendants; and whoever may dispossess him, or, in case of anyone else attempting to dispossess [him, may fail

to stand by and finally eject (the intruder) and acquit all claims, he shall lose his rights and pay double the price he received and an additional

- 25 fine of 200 deachume and to the King an "equal sum: but \(\) likewise \(\) if Gathaes too neglect the vineyard and fail to keep it in good order, \(\) \(\) let \(\) bin \(\) he shall \(\) by day half, and of what is let in \(\) the share that is due to him with the co-possessors.
- 39 (by night half. Witness : As surery and secretarial Barness and Sobines !) appointed

THANSLATION II.

- In the reign of the King of Kings, Arsaces, the Benefactor, the Just, the Manifest and the [Philhellene, and of the Queens, Olennieire, Chopatra, Bescirta, Bistheibanaps, in the year two hundred and ninety one (in the hyparchy Basimora, near the station Disacella) (in the village Caphanis, in the hyparchy Busimora) (in the village Caphanis,) before the witnesses hereunder written, acknow-
- b ledgment and agree ment were made by Aspinaces, son of Gaaces, that he had received from [Denns son of Gathaces fifty-five drachmae in money [as a price] and had given [him] the vineyard in the open country known as Dadbakabag with ingress and egress and the waters belonging in common with the co-possessors: the boundaries and abutments (as the east with the co-possessors) (to be) as in the [ald] agreement; they shall [ever] pay yearly [in possession]

he appointed Asthates, son of Dargenes, who appeared and acknowledged that he would goarantee)
and he promised that he would invalidate none of the aforesaid [provisions, either himself or these taking according him.

[and ejectment will be obtained by both the cender and the guaran.]

[tor, if any one lay claim to the vineyard that has now been sold] in no way whatever [[what.]]

[aver] nor open any protext whatever: (f he do not (see) (Ast), the attempt to invalidate shall itself be void)

(immdred drachines and the same sum to the King's transary. Witness.) Arumoscles sam of Indabochthes. (Miradates, on of Miradates, forces, son of Ardense. He appointed) (General of Archaelance, Miradates, son of Miradates, son of Miradates, son of Miradates, son of Miradates.)

(General of Archaelantes, son of Dargenes)

HISTORICAL INTEREST.

The interest presented by the contents of our documents as transcribed and translated, falls into three main divisions, historical, linguistic, and legal. The more fact that at the time and place in which they were composed Greek should have been the language chosen is unexpected, also the elements of the dates add a little to our knowledge of the Parthian kingdom: the forms in which some of the proper names occur throw fresh light upon the time when important sound changes took place in framian speech, while students of Hellenistic Greek are not indifferent to specimens from a new region; finally students of ancient law will find in the texts and in the very carelessness with which they were put together something worth comparing with the innumerable documents of Greeian Egypt.

The dating formulae give the official name of the King Arsaces, his style, the names of his Queens and the year of some era. It is clear at first sight that we have to do with the king of Parthia, no king of a subordinate kingdom such as Persis, Elymais, Media Atropatene, or even Armenia (except under Tigranes) would dare to call himself King of Kings. As all the Parthian kings hore the same official name, and as none of these queens seem to be known, this gives us little by which to check the remaining chronological elements and thereby determine what era was used.

Both style and era have light thrown upon them by being compared with those used upon certain cunciform tablets, two Greek inscriptions from Babylon, one from Delos, and the Parthian comage, the The tablets are some of them legal documents, others astronomical records others (Reisner's) hynns to deities. Under the Selencids a single date is given, the year of the Selencid Era (A.Sel.); even under Selencius I, it is not a regnal year but the year of an era, hence the translation of a is not Anno viii Selenci regis, but Selenco rege. As soon as we get the name Arsaces, the dates become double (e.g. c); the year of a new era generally called the 'Arsacid' (A.Ars.) is put before the Selencid year, though the Selencid still occurs alone (e.g. f. o): I know of no certain example of the Arsacid year appearing without the Selencid.

¹¹ Some hundred and afty are known with dates of the Selemid Em and some forty with the addition of the Amarid (below). The first to parillah one of these was G. Smith, Aspress Decorreis, p. 289, but we swe treat knowledge of them to Fr. J. N. Straumater, Zotsenreft für Amyriologia, in. (1538), pp. 129-158, "Arsenblan Inschriften", 14, (1889), pp. 78-89 (J. Epping); v. (1890), pp. 841-866 (Epping and Strasmaner), " Sam Pabylaminha Planeten Tafels, continued in cl. (1891), pp. 69-202, 217-244; vii. (1892), pp. 197-209, ' Emige shoundleges he Daten am astronomiather Rechnungus | distoried results summed up in viii (1803), pp. 166-112, Zur Carenologie der Sehmmiden vol. Fr. F. X. Kngler, M. J. Ass.

xv. pp. 178-309, 'Zur Erklarung der Balsylanderlan Mondtafeln'; of G. A. Reisner's 'Sumerisch-Babylouische Hymnen meh Thomtafuln Grischischer Zeit' (Kgl. Masses zu Berlin, Mill. aus der Orierat Samuel z. 1896) only a dozon have Araccial dates, the colophous Ising generally broken; the shifter gives un transition or transcription, this is supplied in a few cases by Miss M. A. Hussey, Janes, Joseph Grow, Long xxill. (1906-7), p. 142+A. T. Clay, Balghunian Beceviti in the Edward of J. Pierpost Morgon, ii. (N.X. 1913), 'Lagal Documenta from Erech dated in the Salemnid Era, includes three with Arsaeid dates: others are still unpublished,

NA.

DATING FORMULAE OF CERTAIN CUNEIPORM TABLETS AND GREEK INSURIPTIONS.

B.C.		A.Ata		2.0	Sei	
a 304/3				Sattu	Bhin	"Si-lu-ku turru
				Year	8:	Seleneus, King.16
b 205/4				Sattu	47km	"Anti-uk-su jarru valat
2007						u "An-ti'(uk-su miru-
						Sa, Sarredni)
				Year:	47 %	Antiochus, Great King,
				4 (1991	55.0	and Antiochus his son,
						Kings.17
c 180/79	S.11.	distant	an di-i	See See	4 0 Okus	"Ar-ka-kan ka[rru]
	Year.		which is			The state of the s
	ANTE	00.				Arsaces, King.18
d c. 139			(date)	OST)		"Ar-suk- u 'Ri uu
						ummi-iu, šarrdni.
						Arsaces and Ri nu his
T. WANTER	20.00	A WORLD	3 500 -	1115	a least time.	mother, Kings.19
6 133/2						"Ar-sa-ku-a ar mutati.
	Year	110	which is	7 (0.0		Areaces, King of countries.
/ 110/09					The same of the sa	"Ar-ša-ka-a šarru.
				Year	- William -	Arsaces, King. ²⁰
9 108/7	Sattu	140km	\$4. 11-E	sattu-	2042	Ar-sa-kan sar sarrani.
	Year	140	which is	year	204:	Areaces, King of Kings.27
h 90	Sattu?	2155 (si	chan ou si	i Jattu	221****	"Ar-la-ka šarru ša it-far-
						ri- di(2) ["Gu]-tur(?)-
						sa(t)-a u 'A-lia-ba-
						tum(1) [/assati-su beltu]
						[n / .]-sa-at amel(t)
						tir 1) lassati(1) su beltu.
	Year	155 (15	(7) which	is year	221:	Arsaces, King, who was con-
			100	100		tinued as Gotarges, and
						Asi'abatum [his wife, Lady
380						and sat amel tir (1)
						his wife, Lady.28
	-					

[&]quot; Erech. A. T. Clay, op. od. No. 1, pp. 26, 37 : " and f are the "determinatives" for musculine and feminine persons, and - for numerala.

The mouth is Adat II., the last of the

il Strasmuner, Zt. f. Am. viii. p. 108: he always writes exest the construct for falls, and a7" the ordinal for 47"-

Strassmaler, ep. cd. p. 110.
 Erseli, Clay, ep. cd. No. 53, pp. 13, 33, 87. It is written by the scribs of his No. 58 dated A.Sel. 178.

^{= 4,} f. Strammales, op. cal. p. 111.

Stransmiler, sp. cs. p. 111. Ten examples of this formula bring us down to Tilei 157 - 221 (B.C. 91), the date of Berlin, V.A.Th. 245, Reisser, No. 16, pp. viii, 82

⁼ Berlin, V.A.Th. 265, 728, Raine, No. 51, p. 03, H. 9-11. Though the signs are not also: the first wife's tume gives me the right to supplements according to s and j. For the translation, see below, p. 40 n. 53.

PARCHMENTS OF THE PARTHIAN PERIOD FROM AVROMAN 35

	35.03	10.0	A.Ann.		A	Snt.	
(6)	88/7	Sattu	1604-4	na il-i	Sattu.	994 ^{tan}	"Ar-ša-ku-a ša i-ta[r-ri- du] "Gu-tar-za-a šarru u 'A-si-ba-a-t[um] 'as- šati-šu bēltu.
		Year	100	which is	year	224:	Arsaces, who was continued as Gotarzes, King, and Asibatum, his wife, Lady. ²⁴
3	87/6	Satta					"Arsa ka-a sa it-tar-ri-da "Gu-tar-ra-a sarra u 'A-si-[bátum, assati-sa bálta]
		Year	161	which is	year	225:	Arsaces, who was continued as Gotarzes, King, and Asi[batum, his wife, Lady], a
h				(date)	inst)		"Ar-ŝa-ka-a ŝarra ŝa ŝumu- ŝa "Gu-tar-za-a.
							Arsaces, King, whose name is Gotarzes. ²
.4	8675 +	Sattu	162hm	de Mili	Satta	226	-Arda kan karra.
		Year	162		year	226	Arsaces, King."
310	80/79	Sattu		sa si-i			"Ar-šu-kan šurru ša it-jar- ri-du "U-ru-da-a šurru.
		Year	168	which is	year	232:	Arsaces, King, who was con- tinued as Orodos, King.
n	76/5	Sattu	172****	See Si-i	Zatte	236****	"Ar-ša-ka-a šar šarrāni u "Iz-bu-bar-za-a akati-ša šarratu.
		Year	172	which is	year	236 :	Arsaces, King of Kings, and Izbubarza, his sister, Queen.
16	70/69				Sattu	242	"Ar-sa>-ku-a šarru.
					Year	242:	Ar[sa]ces, King.

²⁶ Brit. Mus. Bm. 844. Byir. Mus. Rm. 710 shows part of this formula for the preceding year, 159 = 223 1 m. Zt. f. Ass. vi. p. 226, viii. p. 112.

(c. No. 55, pp. 1s., 155, rev. l. 83, bours date 165=226, probably a mistake for 227; Stranmater, Zt. f. Am. v. p. 355, viii. p. 112, gives year 154=228; and Reisson, No. 42, pp. 12, 89, i. 21, year [167]=231 (n.c. 81-80) all these have the same formula.

Brit, Mus. Rns. IV. 118 A; 23, f. dos. in. p. 185, iv. p. 78 (Epping), witt. p. 112, wronglyreal for Survival: see Schrader, SB, et. h. pr. Ak, d. W. on Berlin, 1890, p. 1827.

*** **, **, Strasmenler, Z. f. Au. viii. p. 112.
D 2

Pennsylvania Mos. 9. 21-7-88, corrected by reference to the original; cf. Zi, f. der. vi. p. 223; Eb. Schrader, SB. d. k. pr. Ak. d. W. on Berlin, 1891, p. 3.

[&]quot; 22. f. Am. vi. p. 226.

Berlin, V.A.Th. 573, Reinner, No. 27, pp. viii. (206 is misprint for 226, 54, ecc.), 15;

p 68/7 Sattu 180^{kan} ša ši-i šattu 244^{kan n}Ar-ša-kan šarru u Piir(!)-ri-ta-na-a aššatišu šarratu.

> Year 180 which is year 244: Arsaces, King and Piritana, his wife, Queen.²⁰

q 35/4 Sattu 213 sa si-i sattu 2772 Arsaces, King of Kings."

122/1 [βασιλεύον]τος μεγάλου 'Αρσάκο[ν]
 [έπυμανοῦ]ς φελέλληνος, έτου[ς]
 υπο. ός ὁ βασιλεύς [ἄ]γ[ει]
 [κατὰ νόμον] ἱερον Α΄ς καὶ Ρ,
 [ὡς ἡ πόλις] Τ [Κ καὶ] Ρ

A.Sel. 191 A.Ars. 127

 111/10 [βα]σελεύωντος [βασελέων μεγάλου ' Αρσάκου] ξπιφανούς φελέλλην[ος, έτους ὡς ἡ πόλες ἄγει] ΣΑ και Ρ. ὡς ὡ βασελεύς [κατὰ νόμον ἐερὰν] Β≤, κ.τ.λ.

A.Ars. 137 A.Sel. 202 31

 1 c. 110 Δορ ράτην, τῶν πρώτων φίλων τοῦ βασίλεως βασίλεων μεγάλου "Αρσάκου κ.τ.λ.™

It is not indeed self-evident that the second era of those double dates is the Seleucid, as the Arsacids are not known to have got possession of Babylonia till between 144 and 139 B.C.; but c seems to have nothing wrong with it and we must suppose that the Parthians made a successful raid during the weak reign of Seleucus IV. Philopator; so the temporary victory of Antiochus VII. Sidetes in 130 B.C. is recorded by a Seleucid date. Also various Arsaces dates published by Strassmaier have caused difficulties, though nearly all of them may be accounted for. However, these difficulties and the fact that we know of no Gotarzes about 88 B.C. or Orodes about 80, led Professor Schrader to suggest that we had two

* Strasmusier, Zt. J. Act. viii. p. 112.

Stranmaiet, Zi. f. Am. vii. p. 204. This is the latest emmission data known, Opports your 5 of Pickerien, king of Pauren, Dec. Juruffymes & T. Auseria, p. 341, not being

secrepted as Paccerus.

pp. 19-54

44 A.Sol. 182 : Z. f. Ass. p. 202 ; Relature, Hymness, No. 25, v. A. T. Chay, op. cit. p. 12.

Hanssoullier, 'Inscriptions Greeques de Babylons,' \$700, ir. (1909), p. 353, Nos. 2 mml 1 ; but 1 am responsible for finisheavers Survivales in x. Mr. Hanssoullier says quand lie fact les Green emphaint le reche Emphaberres, . le genitif Sunafase n'est plus de mise et lie le suppriment,' but it tills out the line will, ami I give remote for it below. The text is a list of victors, both FeaSer and see, in athletic contests.

[#] Thiles | Dittemberger, O.G.7. L 480.

^{*} Bevan, House of Schoons, ii. p. 233; E. Breccia, Kfm, v. Mitridate II Grande di Partia.

There unst be something wrong shout fatts 1087— Ariza-ka-a kar barrows in Zt. f. Ass. iii. (1868), p. 180, No. 1, and se E. Breccia, Ello, v. p. 41, n. 1, is right in maning it as a suilitary Arsold date without a Solemoid, and so giving the fille ler browns to Hithrestates I.; more probably it aught to be A.Scl. 208, as Strassmaler says (Zt. f. dec. wiii. p. 111) that a calcove) is the first with that title. The 186 of Zt. f. dec. iii. p. 130, No. 2, is the A.Ars. of a double date which has lost its A.Scl.; the rest are mostly corrected in Zt. f. Ass. wiii, p. 112.

[&]quot;" NB. Bied, 1899, pp. 1319-1335, Die Datirung der habylunischen sog Arsandeninschriften, "Nachtrag," ib. 1891, p. 3

Arsacid Eras starting, one from the accession of Phrahates 1 in 181 n.c., the other from that of Mithradates II. about 117 p.c. This would bring Gotarzes into the known place, but does not help for Orodes or square with the instronomical phenomena as worked out by Strassmaier and Epping, and on the whole endersed by Kugler.

The latter fixes the beginning of the Sciencid Era as found on the tablets at 1 Nisan (April, the first month of the Semitic year) 311 u.c., and that of the Arsacid Era at 1 Nisan 247 a.c. just 64 years later. The ordinary reckoning for the Selencial Era starts from the beginning of the Macedonian year I Dins (October !) 312 n.c.; but we know from Ptolemy " that there was a modification of it xara Xaxcalove. C. F. Lehmann (-Hauja)20 has suggested that, just as the ordinary Sciencid Era beginning in October was shifted by the Babylonians to begin in the following Nisan (April, so the Rabylonian Arsacid Era that also began in Nisan was an accommodation of a true Arsaeld Era which could go back to the true date of Tiridates' accession, 247 6, a.c.; Eusebius in his tables gives for this event Ol. 133, and this is its first year. But if Mr. Haussoullier is right in restoring these Greek double dates from Babylon very likely the 'Arsacid' date was a purely Babylonian matter. Note that in s the dates 137 and 202 differ by 65. Mr. Haussoullier thinks the reason to be that having less regard for the Arsacid than for the Selencid Era the Greeks shifted it to begin with October, but it seems natural that they had rather kept to the original calculation of the Selencid Era from October 312. Among the many cuneiform tablets with double dates only very few have a difference other than 64: these are probably due to mistakes. The dates on Parthian coins. rare before Phrahates IV., A.Sel. 276=38 p.c., are always supposed to be in the ordinary Seleucid reckoning."

It seems therefore certain that both Eras as found in cunciform sources go back to I Nisan a.c. 311 and 247 respectively, but likely that the Selencid Era as used in Greek inscriptions, in documents like ours, and probably on come, goes back to I Dius 312 a.c. Accordingly the date of L.

* Almograf, ix. 7; vi. 7; at Halling, L. II.

p. 111, A. Ars. 111 = A. Sel. 175; h above, Reissier, Hydraca, No. 51, introd. p. ix. A. Ars. 187; = A. Sel. 221, but text, p. 63, rev. 1. 9, A. Ars. 185; No. 55, introd. p. ix. A. Ars. 163 = A. Sel. 227, but text, p. 155, rev. 1. 13, A. Sel. 225. Kngter, sp. Hamssoullier, says be knows of but one instance.

"Professor Rapson has suggested (Num. Chron. 1970, p. 212) that a deschass bearing EKP is dated by the Armeid Era, but a Wroth, op. 42 p. 25, No. 10, and note 5. EKP is in the exergue, the right place for a date; but there are unexplained monograms on other similar coins, and it may be that had the letters less themselves thereto they would have appeared in the field as a numegram.

F. W. Wroth, op. cit. p. fav, and his convenient table of the ordinary or Greek Sciencid Ere, p. 232. F. K. Girmi, Hamburk der mathematisches und Schnichen Chronologie, satabilishes the beginning of the ordinary Schmicht Era (ii. 1914, p. 41) and of the Babylonian and Armoid Eras (t. 1996, pp. 136, 137) se above. Fr. F. X. Kugter, Streaklands und Streadlenst in Habr. I. (1907), p. 214, onesity.

Zur Atmatiden Fra, Kffe, v, (1905), pp. 128-130.

^{*} Streemairr, 22 f. Am iii. p. 131, No 1, IL 7, 8, A Am. 152 A.Sel. 217; and vill.

Apellacus A.Sel. 225 comes out at November 88 s.c. and H., A.Sel. 291, at 22/21 s.c.

With regard to the royal style the comparison of our documents, the tablets, and the coins is very instructive. The King's titles in both L and IL are alike and (save for eal) identical with the coin-legend first adopted by Orodes (57-37 h.c.) and continued by nearly all his successors, Barthew; Βασιλέων Αρσάκου εθεργέτου δικαίου επιφανούς φελέλληνος: so II. of the time of Phrahates IV. agrees exactly with his coins.45 But by 88 B.C. the complete formula had not occurred upon coins; however, the way had been prepared for it by various approximations: \$\phi \lambda \lamb coins of Mithrudates I, and of Himerus (7), and on one of Artabanus, who came between them: all kings after Mithradates II, seem to have used it: Himerus is the first to use emidavais, as do all his successors. A close approach to our formula is on certain drachune assigned by Wroth (p. 35) to Mithrolates II, βασιλέως βασιλέων 'Αρσύκου δικαίου εὐεργέτου καί φιλέλλην(os); only έπιφανούν is lacking; coins put down to kings who immediately succeeded to him have different combinations of the same elements save that βασιλέως μεγάλου takes the place of βασιλέως βασιλέων. The variations in the epithets which follow the name do not probably represent anything very much, but the assumption of the title King of Kings' instead of 'Great King' "implies a definite claim to the suzerainty of Western Asia. On their coins the Arsacids had styled themselves 'King' or 'Great King' until Mithradates II., some of whose coins have King of Kings. " The come assigned to his successors have 'Great King' until Mithradates III in whose time 'King of Kings' is finally adopted. On the whole the tablets and Greek inscriptions support the numismatists; Livra, Ser matchi or farra wood, 'King,' King of Lands, or 'Great King,' are used on the former (e.g. e, d, e, f) down to 110 R.c.; from 108 R.c., the middle of the reign of Mithrudates II., to Tisri " 91 we have sar sarrani, 'King of Kings' (e.g. g): so r from 122 B.C. has βασιλέως μεγάλου and almost the same formula as the coin ascribed to Himerus dated 123 B.C., * s is doubtful, and I of about 110 B.C. has Basilieus Basilieus: Sarru occurs from DO to 80 B.C. (h, i, j, k, l, m) and again c. 68 B.C. (p) in the reign of Phrahates III., to whom Pompey definitely refused the title 'King of Kings," and of course q in 35 n.c. has har haredmi. But as against Wroth's assignment of the coins we have for Arreini in 76 Bc. (n), and in view of their precise dating the tablets give the better lead. I am inclined to wonder whether among the coins that Wroth assigns to Mithradates II., all his Class II., those with a helmet

I have mostly followed Mr. Wrath, B.M.C. Parthie, and my new material has supported his conclusions in one or two points; but the attribution of undated come to particular kings is so subjective that it is very unsafe to rely on municipality syndence.

⁶ For the significance of the titles, c. E. R. Bevan, "Autiochus III. and his title Great King," J. H. S. wart, p. 241.

Am So Wroth, op. sil. p. xxiii spq.; Nuss. Chros. 1900, p. 186 sqq.: Gardner bad said Mithr. I.

[&]quot;The sign for this month is not quite centain, but A must be subsequent, being dated Adar II., the last mouth of the year.

Wroth, op. at. p. 194; B. M.C. pp. xxiii, 23.
 Platarch, Pompey, 38.

and Basileon Basileon, should not rather be given to a king reigning e, 75 ket, or at any rate the drachmae above mentioned, on which the full

inscription seems to mark a later date.

The absence of Basiliese Basiliese on the coins had been explained by the fact that it coincided closely with the time when Tigranes of Armenia was claiming the highest place in Western Asia; the tablets seem to suggest that if some Parthian kings recognised his pretensions, others resisted them. It is not unlikely that the former received his support in an internal struggle against rivals who did not rely on or how down before the Armenian King

of Kings.

Our documents agree with the coneiform tablets in naming queens side by sale with the kings. This was the practice of the Ptolemies, but not apparently of other Oriental states.4 Further, L and tablet n tell us that the queen was again as among the Ptolomies and perhaps among the Selemin's the king's sister. We knew from Herodian (iv. 10) that the kings took their wives among the descendants of Arsaces, and it might have been expected that they should marry their sisters as this practice, if not enjoined in the Avesta, is certainly approved in Pahlavi literature." We may notice that foreign queens were also taken; for instance, Aryazate or Automa the daughter of Tigranes in L and the Cleopatra in H. Strabo (XI xiii: 1) speaks of a Parthian queen from Atroputene and Plutarch of Greek concubines; compare the case of Musa below.

In the case of tablet d it looks as if we had to do with a queen-regent and a minor, that is, with Phrahates II., who is usually supposed to have come to the throne about 138 a.c.: it is a pity that the exact date of the tablet is lost. The tablets quoted under i and j. A.Sei.Bab. 223, 224, 225, overlap document I. A Sel Gr. 225 before and after. The reading ittaridu (itarridu or it(t)arriedu) in i, j and m, is due to Dr. L. W. King " who very kindly

era So Lineate, vill. 404, thecare mereras in

regum thalumit, proves to be true.

at I have restored tablet h as having named two queons, but it is possible that Dr. Johns should have vetoed this, as the characters given by Reissner are not exactly faiinti-in. Ast'abatum may have been the principal queen and the other the queen kept at Babylon. The nameseem Irunian: All'abatum suggests alissent, giving rowards, and sail, 'lord,' or palls, 'protested', Piritans, jur, 'old man, and fewer, 'descendent', Ishabarah, opens, 'soldier. barer, 'high,' or more, 'work' | but them are never guesses, and the derivations need not be nonghit in Immian at all.

[&]quot; F. C. Burkitt, in miles to a revised translation of 'The Hymn of the Soul,' The Quest, v. No. 4 (1914), quotes our documents to illus-Trate the trst lines of a letter to the cribed Prince, 'From thy Father, the King of Kings,from the Quoen, thy Mother, -And from thy Brother, - to the, Our Son to Egypt, be greating that it is a family letter, not a state document Kammahires or Plam does name

his queen Annue on his coins; B. V. Hend, Hat, Nam. 2 p. 822 A. da la Fuye, Rev. Num. 1902, Pt. V. 2-6 | A.Sel. 221.

[&]quot; Bayan, Honer of Sciences, in p. 279.

⁴ J. H. Moulton, Hilbert Lectures, 1913, Early Zeroestriauton, pp. 205 spp. Gute hmid, p. 43, suggests that Phriapatina called himself. Philadelphus became of having complied with this sustant, but the coins on which he founds this guess are smigned by Wroth to Ariatunns L (IL), who might so have expressed his regard for his great prolecessor, Mithradates I. It is strange that the king of tablet a, who is said to have married his slater, is apparently Sinatruces, who came to the throne at the age of eighty.

²¹ Prassus, 22 Sr.

[&]quot; Letters dated 10 Oct., 9 and 11 Nov., 1914, 25 Jan., 1915.

furnished me with the exact readings of the British Museum tablets and ascertained by writing out to Philadelphia that the tablet there agreed. Strassmaler had at first read the word (in m) as ittures, afterwards flezold and Schrader took it to be ustarridu and found it hard to explain. But Dr. King is quite clear about the reading as given above and the translation is his ⁵³; it is well borne out by tablet k.⁵⁴ Ascabatum or Asibatum in h., i, cannot be the same as any of the queens names in document L.²⁵ so the Arsaces Gotarzes is probably not the Arsaces of I; this was perhaps Mithradates II, who is known to have reigned till 88 a.c.⁵⁰ Gotarzes may have been his son entrusted by him with the sub-kingdom of Babylon between Tisri and Adar II. A.Sel. 221, or else a rival admitting the hegemony of Armenia and so not claiming to be King of Kings.

The next thirty years Justin merely sums up in Prologus XLIL with suria complurium regum successio; in his Epitome he jumps, apparently by mistake, from Mithradates II. to Mithradates III and Orodes I. in 57 a.c. of Other literary sources give us Sinatruces circa 77-70 a.c. and Phrahates III. c. 70-57. The tablets now enable us to put into the gap between 88 and 77 the name of Gotarzes who overlapped with and succeeded to Mithradates II., and Orodes c. 80 a.c., who can hardly have been the Orodes known to us in 57 a.c. Though there were no doubt other claimants, these new names make us less inclined to accept Artabanus as king from 88 to 77, as for his existence he depends entirely upon a conjecture of Gutschmid.

C. H. W. Johns, Lett.D., Master of St. Catharine's College, who gave me the reference to Clay's book and interpreted Brisney's for me, found the old randing unterestin unsatinfactory, and heartily subcomed Dr. King's subation of the difficulty.

A parallel to la mana-in Gameros on tables to is perhaps from it the coin legends βασ. βασ. Αρσάκου λιο(f) εδεργ. Φραστον έκιψ. Επισαλουπίσο φιλέλλησεν ΓΟ ξ (the apparent date A.Sel. 273 = 40-39 s.c., puts it into the rugu of Phrahubes IV. rather than Mithredates III.

— Wroth, p. 66, suggests) and βασ. βασ. Αρσάκου δεν ενελλούμενου Αργαβάνου Γυτέρζης (Wroth, p. 165), where the nominative is an anticompt to clear the sense.

O The second name of Arganate, Automa, does a little suggest the end of All'abatum.

os Gutschmid, p. 80.

= Lib. XLH, ii. 3-8, iv. 1, 2.

^{= -1} anggret that we should read the verb as differently, the Nifal of familie (ve) The ordinary meaning of forada la Assyrian la "to pursue," but in this phrase I would sarign to it the meaning "to follow, to continue" (in the Nifal, of course, "to be continued"]. We may compare the Arabic parada, which in St. X. has the meaning "to pass from one subject to another," "to pass from one class to another." (Doxy, Supplement our Dictionunires Arabes, ii. p. 33); while in St. II, it has the meaning "to prolong" (of the voice), and in St. VIII. "to flow in a regular course" (of water), "to be conscurive," "to continue uninterruptedie" (Lane, Arabic-English Lexicon, pp. 1838 f.) In Holmer, too, formed is used in the Qui with the meaning "to be continuous." The word only occurs in the phress delepth) fored(h), "a continuous dripping," i.e. in which one drep pursues another (cf. Gessmins, Hebren Lericon, Oxford, 1906, p. 382). We have thus ample justification, both from Arabic and Hebrew. for assigning this new meaning to the root in Assyrian - or, rather, in late Babylonian. The root meaning of " pursuit" is well brought out in its Reberty use; and this closely parallels its employment in the Areacol date formulaethe idea of continuity regarded as an uninterrapted succession of saparate units. Canon

It would be rash to assign any particular groups of coins to these new kings, but probably some of those given by Wroth to his Artabanus IL, having βασιλίων μεγάλου, belong to our Gotarzes and Orodes who called themselves street simply, while perhaps of those he assigns to Mithradates II. Class II. (with helmet and βασιλέων) or at any rate part of the class, with the long inscription, should go to Sinatraces, within whose reign a comes. But where dates and monograms fail us, the grounds for assigning comes to particular kings are so slight that the attempt is well nigh hopeless: we cannot indeed be at all sure that a king might not let far stredul continue in use on obscure native documents when he thought it politic to abandon the title on his come with their wider range and intelligibility; still the case of Phrahates III as exemplified on a and p argues for fair consistency in the matter.

Document I therefore apparently belongs to the very end of the reign of Mithradates II. That he married a daughter of Tigranes is new. Tigranes had been a hostage in Parthia and probably her hand was bestowed in connexion with the action of Mithradates of Parthia in putting Tigranes, then about forty-five and well old enough to have a marriageable daughter, on the throne instead of Artoasdes I. Tigranes ceding him seventy valleys as a reward: this was in 94 s.c. Tigranes was still in alliance with Parthia in 86 s.c., and used this support to make himself master of Syria, but shortly after attacks by external enemies, probably at first on the N.E. border, and internal dissensions brought low the Parthians' power. Then it was that Tigranes took the title of 'King of Kings' and forced some Parthian kings or

samplurium requis in Parthis piecessims impersum accepit Orodes, etc.

In Epitoma XLI Justin speaks of Armers (L), his sen Armess (IL), to whom he gives no other mano, Phrispatins, Phrahates (L), Mithradates (I.), makes a digression to things Bactrian and returns to Mithralates (L), his conquest of Media and Clyman on the as the Ruphrates In EpitomoxLII. we have Physhates III. J. Artslumia, Mithradates (II.), his attack on Armenia, an account of Armenia, and then the deposition of Mithra lates (III.). Guteshmid, Comm. Crit in Prol. Tr. Pomp. ap. Justinuos ed. Ruhl, p. Ist., and Grack, from, p. 81 n., said that the words successors to Archips silus now in Prot XIII, have fallen out between drawnierum et eiter und et rariatis Prol. XLII. because of the immediation edus, edus, and have been put back into the wrong place : so Artabanus would be a successor of Mithradates II and so would Tigranes, as he conquered Mesopotamia from M.'s hairs and assumed the title King of Kings. This seems very harsh; also the last account of Arabia could not concelvably have come at the end of XLII.

which livings events down to 20 s.c. profer Vaillant's old correction Mithendates for Tigranes, so Artabanus becomes the second matte of Armansa II. (210-191), the only Armaid without a se oud name. After a digression to Bactria as bave mention of Mithradates L and his conquests, which included Ambastan amil gave good manus for an account of Ambia at the and of Hook XLL That Mithradates I. was called seen we can infer from the coins assigned to his was and successor bearing the title sensorages. The psychology of the copyret's mutake is that he was sure that Espaint, the only Mithradams he know of, did not conquer Mesopotamia, so he sabstituted the name that lay nearest in his mired. I note that The Reinach, Mitheblate Empatier, p. 310, Justi, Jr. Muneuburk, pp. 31, 412, and Allotte de la Fuye, Rev. Num 1904, p. 321, doubt Gatschmid's view, though Wroth accepts it, pp. xix., xxxi.

M. Appian, Spr. 18, calls Tigranes the Great.

M Appian, Spr. 48, cells Tigranes the Great the son of Tigrama, and you Petrovies thinks him an Arsachi i but Tigranes the Father was scarcely our Great King. pretenders to acquieses in it. Perhaps it was the death of Mithradates II, his elderly son-in-law, that broke the bonds between Tigranes and Parthia and set him free to recover his seventy valleys and to invade not only Atropatene but Media proper somewhere about 86 s.c. Another daughter of Tigranes afterwards married Pacorus three generations younger than Mithradates II. The Armenian princess has two names, one Aryazate, Iranian, and the other Automa unintelligible, perhaps Armenian.

There can be no doubt that the Arsaces in Document II is Phrahates IV., who used exactly the same titulature on his coins - but his dated tetradrachms stop at A Sel. 289, two years before our document; bu probably this meant trouble of some sort or another. It was perhaps in this connexion that in 20 Rt. peace with Rome became so important that he actually restored the standards taken from Crassus and Antony, the proudest trophies of Parthian arms. In 10 or 3 n.c. he sent his sons to live under the protection of the Emperor. In 3-2 n.c. another son, Phrahataces, murdered him in conspiracy with his mother Musa, an Italian slave-girl sent as a present by Augustus. At first she had not been a real wife but moved by her beauty Phrahates had raised her to that position after the birth of her son. Oriental princes grow. up quickly, but Phrahataces must have been born not long after the date of our document, which shows that in 21 a.c. Musa had not attained the dignity of queen. The names actually given do not lend themselves to interpretation, except Cleopatra, no doubt a daughter of one of the semi-Greek houses then still surviving in Western Asia.

PLACES MENTIONED.

Baiθάβαρτα, I. A 6, B 6: Semitic Beth "house"
Baiσειρα, I. A 6, B 6: perhaps the same as the following.
Bασιράορα, II. A 3, B 3.
Γανζακή, I. B 12.
Δαδβακαβάγ, II. A 7, B 7: perhaps the same as the following.
Δαδβακαράς, II. A 11.
Δησακδίς, II. A 3; Δησακιδίδοις, II. 4 (Dative).
Κώπανις, I. A 7, II. B 8, II; Κώφανις, II. A 4, B 3.

None of these are known except Γανζακή, the name of the chief town of Atropatene, said to be Takht-i-Salaiman, on a river running into Lake Urumia; here it seems to be a mistake as the corresponding text L A 11 has Δαδβακανράς. Ptolemy has two names rather like the first two in Βίθαβα or Βίρθαβα and Βέσσαρα, but he sets them far from Avroman, somewhere near the Tigris and west of Nineveh, in his longitudes and latitudes 77° 50′–38° 40′ and 77°–37° 20′. There is nothing surprising in a Semitic name like Baithabarta occurring so near the Semitic language

[&]quot; Justin, XL. L. 3; Gurschmid, p. 82.

⁼ Wroth, p. 107.

so Josephine, Ant. And. XVIII. ii. 4 (50).

Вепрабра, он coins бей Образіа Мобра, Wroth, pp. 189-141, Pl. XXIV, 1-3.

frontier. Dr. Sa'id Khan gave me the names of several villages round Avroman, but none seemed to have any possible connexion with the names in the documents. There can be little doubt that Krowaws and Koopavis are the same, which makes it likely that Bairespa and Baripdopa are to be identified. We must allow for great carelessness in writing down the names. apart from the substitution of Ganzace in L we have in II, the very different forms Angandle, Anganiology for what must be one mime. That inclines me to think Δαδβακαβάγ of II and Δαδβακανράς of L are one and the same name; it has an Iranian look; the termination baga means lot in one case and perhaps rus is something similar, and the first part may have the same elements as Bagdad (Deus dedit) in reverse order. It is true that Dao-SaxaSay is described as near the avaduo's Desakidida (or whatever the right form be) whereas Δαδβακαυράς is near Baithabarta, but as both are in Cophanis, this might be due to a rearrangement of the graduol or poststations with dak-bungalows on the king's highway. Isidorus Characenus writing περί σταθμών Παρθικών seems to give lists of such along roads which Roman invaders might conceivably wish to use but he mentions neither of these. Δs to the ὑπαρχίαι—we hear of ὅπαρχοι in Persia, the and in the empire of the Selencids and actually of imapping four or five making up one satrapy. The word may have survived under Roman rule "; still more likely is it to have remained under the Parthians, who seem to have made as few changes of organization as possible.

NAMES OF PERSONS."

'Aξάτη, I. AB 5: Azūla, noble, is a man's name in the Avesta, Justi, p. 54.
'Aπάκη, I. A 28, B 30: cf. Apakan Wsemakan, general of Sapor II., Justi, p. 18.

'Aραμάσδης, H. A 12, B 16 - Moulton suggests, Arom-mazdah, 'with right wisdom'; cp. Aramaiti as popularly understood, 'right thinking,' cf.

A. Carnoy, Musson, n.s. xiii. p. 127 spq.

'Aρθασθάτης, Π. A 12, 'Aσθάτης, B 11 see perhaps αrla, 'pure': Carnoy compares astata, 'not standing,' but prefers to adduce the name Astvatoreta, Bartholomae, col. 215, the same elements in reverse order, with body subject to justice.

ale Herodottis, ill. 68.

= Ditterberger, O.O.1. 225, 1, 36.

** O.G.T. 532, L 38.

Justi, Leanisches Nemenbuch, Marhung, 1895, and Chr. Bartholomas, Alternations Workstock, Strassburg, 1904; I should not have got for seithout the halp and arithosm of Perisson J. H. Moulton, D.D., of Dirishury College, Manchester, Professor A. Carnoy, of Louvain, and Mr. E. J. Thomso, of the University Interry, Cambridge, and I am much indebted to them. They are not, however, responsible for my arrors.

Anistrory.

^{**} Th. 238, I. I. See his notes on both passages, mostly founded on Haussentiller, Rev. de Philologie, 129, (1901), p. 6 sup.; cf. W. H. Buckist, 'Greek Innor, from Sardes, in A. J. A. xvi. (1912), p. 69. A. Corvatta, 'Divisions Amministrative dell' Impero dei Saleunidi. Readi conti d. r. Act. d. Lince, z. (1901), p. 149, dues not seem to recogniss them.

[&]quot;Though for times I had resource to F.

'Aρδήνης, Η AB 10; perhaps arta, 'pure,' dağıla, 'faith,' ar as Carnoy profers to render, 'conscience,' Bartholomao, col. 665.

'Apouens, I. AB 1 - II. AB 1 : Arsaka, derived from aria, bear.

'Aρυαζάτη, L AB 3: Moulton suggests area (Av. σαννα), 'swift' or 'brave,' and dzāta, 'noble,' but says a dwandva name of this kind requires a parallel. Such Carnoy finds in Wahistazād, 'best-noble,' Justi, p. 340, and perhaps Cihrāzād, 'high-noble,' ib. p. 163. Probably not Arya, 'Aryan,' as v was still an u, cf. 'Τρώδον = Hurandu on a coin, Wroth, B.M.C. p. 96. Perhaps divide area-zātā, Moulton.

'Aσπωμάκης, Η AB 5: uspa, horse!

Αὐτομά, I. AB 4: perhaps Armenian. Carnoy suggests the superlative of anta, 'cold,' Bartholomae, col. 41, or αυτα, 'understanding,' Justi, p. 52; of Αὐτοφραδάτης, 'advanced in or by understanding.'

Βαράκης, I. AB 8 sqq. perhaps Semitio, bareya, 'fulgurans,' or barek, bareka, 'blesser,' E. J. Thomas, Carnoy compares Warakes (Justi,

p. 348) or whyka, wolf.

Ваσείρτα, П. AB 2: cf. vas. at random, e.g. vasa-urt or vasa-varta,

turning or ruling at random, Carnoy.

Βισθειβάνωψ, II. AB 2: vista, 'warrior' (cf. Vistaspa, Justi, p. 373) or vahista, 'best.' It might be an altered form of vistavispa, "all blessing, Bartholomae, col. 1354, Carnoy.

Γαάκης, Π. AB 5: perhaps the same as the next, intervocalic θ having become h, ω cf. Hübschmann's derivation of Phrahates from Fracata

below.

Γαθάκης, I. AB 9 sqq.; II. A 5, B 6: perhaps gāthāka, 'rimer,' Moulton, or 'living after Gathie rule,' Carnoy; or from guëthā, 'farm,' hence 'house-holder,' E. J. Thomas.

Γερίκης, II. A 12, B 17: porhaps gairika, 'living in mountains,' Carnoy.

Δαργηνής, Π. A. 13, B.11: O. Pers. darga, 'long,' Skt. ana, 'month,' of πρηνής (7), Moulton. Perhaps' holding something.'

Δήνης, 11. AB 5: (used as a genitive, possibly from fem. nom. Δήνη⁶⁶): daēnā, Pahlavi dēn, 'faith.'

Δηνόβαζος, I. B. 30: Dačnavazah, advancing the faith, is a name in the Avesta, Justi, p. 76, or it may be from bazu, arm, e.g. Φαρνάβαζος, Justi, p. 92. (Moulton does not allow that δηνο- could be from dačna.)

Ἰωδαβόχθης, Π. A 12, B 17: first part perhaps Skt. yadh, 'battle' (ὁσμίνη), Moulton; -buχt, of Ješu'buχt = 're-learned of Jesus, Justi, p. 149.

Kλευπάτρα. II AB 2: the only Greek name in the documents.

Macφόρρης, I. A & B 9: probably Semitic, maphorras, 'separated'; for the termination of μιτική = 'Ασσούηρος, Ε. J. Thomas.

Mapto . . . I B 31: cf Marzpan (Amb. Marzulein), Marziei, Justi, pp. 197, 198.

⁴⁰ c. C. Salemann, Geiger v. Knhu, Genade, d. Iron. Phil. 1, 1, 9, 261.

Not very likely becames air wind abrev follow, but cf. P. Lips. 2, I. 10.

Μιραβανδάκης, H. A. 12, B. 17; 'Mithra's servant'; of "Mihrbandaq, Mihrbandak, Justi, pp. 205, 214.

Mειριδάτης, L A 29, B 31; Μιραδάτης, II. A 12, B 17; Mithra's gift, for

form see below.

Olmárns, L. A. 9, B. 10: cf. Avesta, hu-páta, 'well-protected,' Moulton; or vohu, 'good', pati, 'lord'; cf. Οἰβάρης = ἀγαθάγγελος, Justi, p. 232.

'Ολεννειείρη, Ι. ΑΒ 2.

'Oρκαδάτης, I. A 28 : vahrka, 'wolf,' Carnoy ; 'wolf's gift' is quite conceivable.
'Oρo I B 30. Justi, pp. 234–236, gives twolve names so beginning.

'Oχοβάγης, I. A 29, B 31 · cohn = ev (cl. Wahuka = "Ωχος, Justi, p. 431, and 'Οχωδίακος = εὐμεγέθης, Vs. Miller, Bull. Com. Imp. Arch., St. P., xlvii, p. 87) and baga, 'gotl,'

Σιάκη, I. AB 2: cf. Σιανάκος, Latyshev, Los. P.E. ii. 447; Pahlavi, siyabum,

thirty-first, E. J. Thomas.

Συκυνήματος, I. Β 31: (gen. from nom. Συκύνημα ?).

Σωβήνης, I A 8, B 9: perhaps Samitio; cī. Šelma, Isaiah xxxvi. 3, LXX. Σοβνάς, 'tender youth, E. J. Thomas.

Teypulyns, L AB 4: tigra, 'swift.'

'Υστοβώτης, L A 29: vista, 'warrior, Justi, p. 373, or participle from vaēd', 'knowing,' or vaēd', 'having found' (Bartholomae, cols. 1314, 1318), bāga, 'lot'; d is often pronounced σ in Persian and Ossetic. Carnov says 'vahistobāga, with best lot or fate.'

Φραάτης, I. B 31 : frahāta, 'understanding, Justi, p. 101 : Hübschmann, Armenische Grammatik, I. p. 48, fraδāta (cp. Φραδάτης in Memnen), 'furthered' ; hāta, perf. pass. part. of han occurs in Gathic = 'meritus,'

so frahata would be promeritus, Moulton.

Χασστρόης, I. A 28, B 30 = Haosravah, 'famous': this is the first case of its being written in Greek with X instead of 'Oσρόης (why not 'Οσρόης'); v. Justi, s.v. Husravanh, p. 134.

The general character of these names is clearly Iranian; the only exceptions are those of the conveyors in L. Baraces and Sobenes with their father Maiphorres, and the queens in II. Cleopatra the Greek, and Olanmeire, Baseirta, and Bistheibanaps of which the explanations cannot be called convincing. Did Phrahates IV, seek his wives among the mixed peoples who were pressing upon his eastern frontier as well as from Greece and Italy?

Of these Iranian names some we inust leave to students of Iranian others are familiar to us all. Chosstroes, Tigranes, Phrahates, Arsaces, Miradates. The particular form in which this last and its cognate Mirabandaces appear offers as much interest as almost any point that arises from the study of the documents. They are the first recorded instances of a sound change which most characteristically marks off Middle Persian from Avestic and Old Persian, the change of θr to hr between yowels.

 $^{^{32}}$ \pm C, Salemann, in Geiger u. Kulm, Grandr. st. Iran. Phot. L. i. p. 261.

That change would not have been expressed in writing unless it was quite general in pronunciation; tradition kept the form Mithradates in use for centuries, but the first example hitherto known of the name in its later form was given by Tacitus who mentions Meherdates as a candidate for the Parthian throne in A.D. 47, 135 years later than I. This fact has naturally properly the attention of Professor Moulton as it leaves so much the less time for the completion of the sound changes which took place subsequent to Zoroaster but within the Old Persian period, and strengthens the argument for the prophet's early date. Of the i vowel in the middle instead of a, there are earlier examples extant. To

As to the rendering of Iranian sounds: et evidently sounded like t, but it is not probable that or or w had come down to the same, nor does it seem to me as if B was yet sounding as v. Iranian h is left unexpressed unless χ represents it in 'Οχοβάγης; a represents the dull vowel a sa well as a and a. There is, as it seems, some inconsistency in the rendering of v, but philologists expect too much consistency and shut their eyes to the way in which we render, e.g., Russian names, Greek could of course do nothing with & As the names show Middle Iranian forms, probably Document III, (if Iranian at all) is the earliest piece of Middle Iranian extant, if only it could ho read:

LEGAL TRANSACTIONS.

All these matters of kings and queens, dates and names, were but of very little importance to the people who had our documents written, and they would have been much surprised to find that their transactions, to record which the documents came into being, are now the least interesting part of them. Further, the nature of the transactions is not quite clear.

One reason for this is that we have hardly any material for satisfactory. comparison. Dr. Hunt writes 'there is a strong family likeness combined with differences in detail as compared with similar documents from Egypt," but my search for analogies amid the great mass of Egyptian material has shown me that the differences are greater than I had supposed at first. To the layman legal documents concerned with more or less similar transactions have all of them what I should call a family likeness, but as we can see that formulae varied in different districts within Egypt, "it is not surprising that our documents should be unlike in detail.

I hoped that the formulae of cuneiform documents would offer some help in reconstituting the intentions of the writers, but Dr. L. W. King

M. Man. Rt. 10.

[&]quot; J. H. Moulton, Early Zonsostriantim, 1914, p. 233, and addenda fining p. xviii.

Dittenberger, O.G.L 345 (n.c. 92/1), 1 28

[&]quot; For a similar problem, cf. H. Keen, Zar Gesch d. Ansapr. der Griechischen: Widergabe Indiabae Warter Sel gr. Autoren,"

EAAAE Lables, 1889. He shows that the traditional Greek accentuation does not represour the Indian, e.g. Halibotos, Pataliputra : Bapiyota, Bhamkderha; on my accentination of these names is in accordance with meaning less custom.

²² Mittels, Grandelige d. Pappruskunde, II. L 9, 76, tt. 2.

assures me that there is nothing specifically Babylonian about ours. The deeds published by Professor A. T. Clay (op. cit.) are not far off in point of time but offer no analogies save what are inherent in the nature of the case. I do cite one or two resemblances in detail, but do not insist upon them. Our documents must therefore serve to illustrate each other even though the transactions recorded are not exactly similar. I have said that I believe them to refer to the same property, but that Dr. Hunt is not inclined to agree.

We want all the illustration we can get because both documents are most carelessly put together. It cannot be said that the seriveners were ignorant of Greek; the writer of I knew his business quite well, that of II, might have made less difficulties for us if he had not been so much at home in Greek writing that he hardly stayed to form the letters. But they seem in both cases to have transcribed a rough copy full of badly indicated insertions and erasures is and probably made up of phrases drawn from older deeds and not sufficiently adapted to the grammatical requirements of the case. Hence omissions, repetitions and anacolutha which leave us in actual

doubt as to the intentions of the contracting parties.

As to the form of the documents, the first point is their being executed in duplicate. This device of 'close' and 'patent' versions (often called scripture interior and scripture exterior) is very ancient. It is the principle of the Akkadian and Babylonian case-tablets in which the original deed is covered with a fresh layer of clay to receive an abstract of its tenor and the seals of the witnesses. Similar procedure was in use among the Jews: our documents are so well illustrated by a passage in Jeremiah (xxxii. 9-14), pointed out by my sister, that I give it here after the Revised Version 'And I bought the field that was in Anathoth of Hanamel my uncle's son, and weighed him the money, even seventeen shekels of silver. And I subscribed the deed (lit. writing, ΤΕΟ, βιβλίον), and sealed it, and called witnesses, and weighed him the money in the balances. So I took the doed of the purchase [both that] which was scaled [according to the law and custom (Mary, or containing the terms and conditions), and that which was open]; and I delivered the deed of the purchase unto Baruch, the son of Neriah, the son of Mahseiah, in the presence of Hanamel mine uncle's son, and in the presence of the witnesses that subscribed the deed of the purchase, before all the Jews that sat in the court of the guard. And I charged Baruch before them saying, Thus saith the LORD of Hosts, the God of Israel: Take [these deeds.] this deed of the purchase [both that which is scaled] and this deed which is open (LXX to aveyvoouever, perhaps for avewyuever), and put them (LXX, αὐτό) in an earthen vessel | that they may continue many days. I have enclosed in square brackets the words which are omitted in the LXX.; it looks as if the Greek text had been changed when the practice of making duplicates became unfamiliar.

It had been common enough in Egypt and many examples exist, both

Demotic and Greek: the oldest Greek contract known, the marriage contract of Herncleides and Demetria (311-310 B.C.) and the deeds concerning Elaphium a few years later, all three from Elephantine, have much the same arrangement as ours: the older practice was to give the deeds into the charge of a συγγραφοφύλαξ who is named as such in the deed, acknowledges the receipt of it, and sets his seal first among the witnesses, usually six in number. In the passage from Jeremiah, Baruch is the συγγραφοφύλαξ; he

is a private person, not an official, and so likewise in Egypt. 14

In the Elephantine papyri the mechanical arrangement differs in so far that the papyrus being very broad, the top version is half cut off from the lower and doubled over with a vertical fold, so the roll is only half as long and makes a stronger packet. The ordinary arrangement is like ours the papyrus being of a moderate breadth." The string is supplied by a fibre stripped from the papyrus itself. The device of a full duplicate is used for very various documents, sales, marriage-contracts, receipts, tax-receipts, declarations, verdicts and oaths," but the fact that the close version would probably never be seen by mortal eye produced its natural result, either that it was written illegibly (in P. Amh, 42 A the close version is the most cursive document its editors had ever seen) or it becomes reduced to an abstract written above the patent version; 78 Wilcken (loc. cit.) shows that from the middle of the third century B.C. practically the same classes of documents are thus shortened down as had been written in fall. Moreover, for greater security the execution of the deed is performed before an official and he it is that writes the close version or abstract. In the case of the agoranomus in the Thebaid the office fashion was to use broad papyrus, so the abstract forms a narrow first column " folded down and secured with one official seal. But once deeds were brought to a public office and registered the need for any duplication vanished and the device tended to go out of use. interesting to note that in the case of the Remach Papyri, all from the same muniment room, some, dated in the city of Hermupolis where there was an agoranomus, are in the form that he was accustomed to prescribe, while others executed in the little village of Tenis were really delivered to the συγγραφοφύλαξ. It is possible therefore that in Babylonia and Media

^{**} R.G.U. Monderkell, "Elophantine Papyri," ed. O. Rabansahu, Nos. 1-1, sep. pp. 5-3;
W. Schuburt, Pap. Gr. Berel, 2, Ac; Wilchen, Archiv f. Pappyrariorschung, v. pp. 200-207;
New Pal. Soc. II. 28.

⁷⁵ See illustrations of P. Amh. 42, Pl. VIII.; P. Hillsh. 84s, Pl. 1X.

¹⁴ Handier, Jeck. J. Pap. v. p. 102.

⁷⁷ Wilskien, for, oil. p. 201; the latest is 131

⁰ e.g. P. Tebt. i. 105 (102 m.c.), Pl. VIII.

P. Lond. 879, 1204, 881, 882, 1206, 1207,
1268, 1209 (iii. Pl. IV.—XI.), 125-88 m.c.:
E.G. U. iii. 993 = Schubart, op. cd. 0.

Wilsken, Arch. f. Pop. iii, p. 223; compare P. Reis. 26 (Mittels, Granda II. ii. No. 184) with P. Reis. 14 and 20 (Mittels, etc. 132, 133) dates 104, 110, and 108 s.c. For stupilicate deeds in general seculos Mittels, ep. cit. II. t. pp. 77, 78; P. M. Moyer, Eto, vi. (1904), pp. 452-454; Gerhard, Philospea, Iriii. (1904), pp. 500-503. The last cases of a cryppacopoloac or something like it are P. Tot. 382 (31 s.c.) and 383 (12 s.c.); by that time the duplicate writing had gore out of new Wilchen, Arch. f. Pop. v. pp. 240, 241; Mittels, op. cit. II. i. p. 54.

registration had superseded the duplicate execution in the towns (there was a Greek ayoparopos at Babylon, v. infra, p. 60 n. 135), but had not penetrated into out-of-the-way places.

Our documents may seem archaic when compared to Egyptian usage of the same date, but are on much the same stage of development as Latin documents, the receipts from Pompeii of the following century, the Dacian tablets of the second century A.D. and also the *Tabulae honestae missionis* of even the third century, all of which exemplify the same principle, though of course the arrangements for sealing up tablets cannot be quite the same as for parchments.

It has already been mentioned that in the case of both our documents the close and the patent versions do not exactly tally: these divergences have been exhibited in printing the translations. Some are due to caralessness, others to a beginning of the process whereby in Egypt the close version was reduced to a mere abstract, others apparently to an alteration in the terms of the contract arrived at after the close version had been sealed down.

In the case of IL the differences are obviously due to carolessness except that the obligations of the ontside guaranter are not put into the close version. In L. besides blunders, one of which affects such an important matter as the actual name of the property concerned, and silence in the close version (like that in H. A) as to the outside sureties, we have a basty addition in A of the catables and dues, which does not quite tally with the corresponding addition to B, and a further provision in B about the vendor handing over the stock of must, etc., which does not occur in A at all. It looks as if this addition might have some connexion with the astonishing change of the price τριάκοντα δραγμάς to τεσσαράκοντα in B, since this is too obvious to be fraudulent. It was perhaps to ratify these changes, which after all concerned things of only momentary importance, not the buyer's permanent right to the land, that the extra witnesses were called in and the definite sureties appointed. It is very strange that the conditions as to irrigation should be more precise in A than in B; no doubt everyone knew at the time what was to emisables mepor and in case of inture difficulty A could be referred to.

As regards their general composition our documents, though tacking a συγγραφοφύλαξ, find their nearest Egyptian counterpart in what Mitteis a calls the syngraphophylax-deed, or, as its real name seems to have been, συγγραφή εξαμάρτυρος, which in its latest phase had no syngraphophylax. This like ours is a private document, objectively expressed, beginning with the date and ending with the names of the witnesses, and in early times written in full duplicate with one version sealed up by the syngraphophylax and witnesses and with each seal identified by its owner's name. This last detail is absent in our case, the writing at the back of I. A cannot have been visible when it was done up and I cannot guess at its purpose. As in the

very earliest Greek deeds from Egypt, we have no mention of any registration and no duty payable to the state, such as Graeco-Egyptian officialdom soon introduced upon the native model. In these matters our deeds are true to early Greek practice, though registration was independently developed in various Greek states.

Both documents claim to be sales though perhaps not of fee simple (see below), but the forms are not very like other forms of sale for real property. In Egypt the native law required two separate documents, one the sale including the acknowledgment by the seller that the price has been paid and his warranty of the buyer's title, and the other the release or conveyance of possession from the seller to the buyer. The Greeks adopted the practice of the country and executed two documents, the went or wpaars, purely objective in form and bilateral (ἀπέδοτο Α, ἐπρίατο Β) and the ἀποστασίου (συγγραφή) sometimes called καταγραφή or παραχώρησες, unilateral in the name of the seller who buologes adioxaodas; " this is a transition to the ordinary subjective opologia. At the end of the Ptolemaie period they began to combine the constituents of the two documents into one and this became usual in Roman times, the form being rather that of the παραχώρησις, (αμολογεί . . . πεπρακεναι) This is on the whole the nearest to our documents with their έξωρολογήσατο και συνεγράψατο, but our draftsmen have not been able to keep up the unilateral form and yet get the obligations of both parties in, so that they fall into great difficulties and anacolutha and finally continue in the purely objective form and change about from seller to buyer in the most haphazard fashion. The purely objective form seems to have been the earliest in Greece and so it was in Babylonia, but in the latter the whole arrangement was different usually beginning with the description of the property followed by the names of the parties, the terms of the agreement the names of the witnesses and the scribe's subscription, with statement of his fee, and ending up with the date." Sometimes the name of the vendor stands first."

Before we come to the purport of the documents all possible effort must be made to eliminate the errors of the scribes and to present the texts more or less as they were intended: the interlineations and corrections on each rough copy were evidently so confusedly made that the scribe took them in different ways when writing out the two fair copies; so a comparison of these sometimes offers a chance to divine a consistent text. In other cases he made improvements as he went along, but occasionally the alterations were so carclessly made that we can as it were follow their course.

In I. for instance we can clearly see that II. A B 8-11 must have run something like εξωμολογήσατο καὶ συνεγράψατο (the singular verbs

^{**} Sen M. J. Bry, La Vente dons les Papperes Sector-Egyptions, Paris, 1989, and Mittain, op. 48. II. I. pp. 167-183.

es a.o. Mitteis, II. it. 252, which has both on

^{*} c.c. P. Lond. 154 (H. p. 178) Mittels.

^{255, 68} a.r., a document which presents us with many small analogies.

Weg. F. E. Peiser, Embylonische Fertrage Berlin, 1890, p. 131, No. 1019.

A. T. Clay, op. cif. p. 25, No. 3 (No. 23).

are probably taken bodily from another document, but they may imply that one of the brothers, perhaps Baraces who is not the true vendor, is an insertion: so κατέστησεν in B 29) B. και Σ., οἱ τοῦ Μ. οἰοί, εἰληφέναι παρά Γαθάκον τειμήν, και δεδωκέναι ἄμπελον τῆν οὕσαν κ.τ.λ., as is shewn by the accusative ἐπονομαζομένην: one cannot tell whether it was by an oversight or in an attempt at conciseness that the scribe left out και δεδωκέναι and then put in the genitives.

As between Dadbakanras and Ganzace it impossible to judge.

The next two lines 11, 12 are more difficult to restore: it looks as if the intention had been to substitute τὸ ἐπιβάλλον αὐτῷ μέρος for an original τὸ ἔδιον μέρος and the latter had not been effectively crossed out, while the scribe added παρὰ τῶν συνκλήρων as he wrote Λ: so the next words seem to have been συν ἀκροδρύοις κ.τ.λ., confusedly altered into μετὰ ὕδατος καὶ ἀκροδρύοις and badly copied in B. But it is possible that τὸ ἐπιβάλλον ἀυτῷ μέρος has to do with this addition of ὕδατος and is not a synonym for τὸ Ιδιον μέρος (cf. B 28).

In Il. 14. 15 the scribe made the phrase in A To ev mepos clearer by sub-

stituting to hatev in B.

In II. 16, 17 the intention seems to have been to shift εἰς τὸν ἄπαντα χρόναν from one place to another and so B has it in both, while τὴν ἀργυρώνητον ἄμπελον is an addition made in writing out Λ.

In 1. 19 μηδέ τῷ ἀδελφῷ αὐτοῦ, which comes in different places in A and B, is probably an insertion as it is not quite in common form. The next

line and a half seem amplified in writing out B.

The differences from line 27 on have been already discussed; they represent a real change in the transaction as registered in the two versions.

The text of IL A and B is fairly straightforward and offers no important divergences until we get to 1 D, nor would the subsequent part of A awake much suspicion by itself, there is only the very harsh plural religious; (se. Δήνης και τὰ έγγονα αὐτοῦ cf. L Λ 17) with another harsh change of subject in integrate referring apparently to the vendor, and the nominative 'Aρθασθάτης, a mere slip. But as it stands in B 9, 10 the sentence about the dues and presents of food has suffered hopeless dislocation, spsitting bio has fallen right out, ἀνο κοτύλας has got into the next line, σκέλος δραγμήν miar comes in a different place, the word oxekes being repeated, and finally there is an insertion of εμβάθρου δραχμήν. This confusion makes it impossible to be sure what the writer's intention was, e.g., whether kat' epinerar applies to all the things which follow in A or to σκέλος alone, and whether εμβάθρου δραχμών ought really to come after it. I am inclined to think that xar' evidence was only meant to apply to oxelog and it was intended to make this clear in B by putting κατ ένεαυτον σκέλος δραχμήν μίαν last and inserting ἐμβάθρου δραχμήν at the beginning, but that it was so badly indicated that confusion resulted. The new clauses in B 10-12 about the outside guaranter have equally miscarried; a measure of the writer's carelessness is seen in BeBarchorn absolutely unfinished: the next

words τὰς δύο κοτύλας of course ought to have come in two lines further back, and have apparently displaced τῆν ἄμπελον, and προγεγραμμένην has been altered to agree.

Considering the extreme carelessness shewn in B Aphaobatys is

probably more correct than 'Artharqs.

In the next clause the negatives μηδενί, μηδεμία are strictly speaking quite out of place and there is nothing to account for the infinitives είναι and ἐκτείσειν; I think that what looks like a redundant μηδενί is the only word left from a clause something like ἐπέσχοντο δὲ μηδέν τῶν προγεγραμμένων ἄθετήσεω τρόπο μηδενί. It is impossible to translate a text in such a state.

The purport of L, even after such emendations as we can arrive at is not quite certain. The vineyard Dadbakannas (or Ganzaca) is described as sold (approximates) by Baraces and Sobenes to Gathaces for thirty (forty) directmae, but Baraces still retains half of it, and it appears as if it were only Sobenes who parted with his half. Further, Gathaces and his descendants are under an obligation to pay in full certain burdens on the property to look after the vineyard and to keep it properly tied up (swapos, see below), so he does not get the fee simple even of his own half, and I am not sure that he does not have to keep Baraces's half as well and pay the dues for it, and it is just possible that we have some kind of melayer arrangement.

The general purport of II. is more evident: Asponaces sells to Gathaces the vineyard Dadhakabag with all its appurtenances for 55 drachmae (of which he acknowledges the receipt) reserving to himself a yearly payment probably a more acknowledgment, of one drachma and also a fee of one-drachma and certain gifts in kind, but all these may possibly have been rendered yearly. Though the vineyard is spoken of as sold (πεπραμμένης, B 13) the transaction is rather of the nature of emphyteusis, the yearly payment shewing that it could not be a conveyance of the fee simple.

Each document presupposes a παλαιά συγγραφή, vary likely the same for both, in which full particulars are to be found as to abutments, waterrights, and does payable from the land. This παλαιά συγγραφή has been well explained by Mr. Haussoullier as the original grant made by the king to a number of σύνκληροι, perhaps veterans or other servants of the state, this would be the foundation of all subsequent titles and would give the exact dimensions of the various lots, the rent-charges which the state exacted, the mutual rights of the σύνκληροι and regulations as to the apportionment of the water.*

supposed in the mortgage, A.J.A. 2nd series, xvi. (1912), W. H. Buckler, D. M. Robinson, 'Greak Inscriptions from Sardas L' The waker's cryypage is signify not murrily the first of the two deeds which constituted the Gracos-Egyptian double sale.

^{**} Dr. Prinigke first pointed this out in a latter to Mr. Bell. We had formerly been inclined to take it as a hereditary lasse or respondences.

or coldered just might be meant to refer not in G. and his fryers, but to G. and H.

[&]quot; Ci, the royal grant to Mnesimashus pre-

PARCHMENTS OF THE PARTHIAN PERIOD FROM AVROMAN 55

These being the main lines of explanation, it remains to note a few special points and words in the operative clauses of the documents, the initial protocol and the names of the witnesses having been already discussed.

έπί των υπογεγραμμένων μαρτύρων I. AB 7, II. AB 4. This anticipation

of the witnesses does not seem to come in the Egyptian documents.

έξωμολογήσατο και συνεγράψατο, I. AB 8, IL AB 4: cf. P. Eleph. 2. 1. 1. entitled συγγραφή και ομολογία. 10 but neither verb is very common in papyri; in P. Hibeh, i. 30 (d), l. 18 and Tebt. i. 183, εξομολογείσθαι is used of owning up to a debt; but of Luke xxii. 6, Judas Empolognae to the priests' offer of money: συγγράφεσθαι in Grenfell, Rev. Laws, 20, 1, 14 and passim; P. Grenf, ii. 16; P. Tebt, i. 5, ix. l. 215; P. Lond. 880, L 9 (iii. p. 8); B.G.U. iii. 993. 1. 10. еконтес συνеурафиято атоненерикения.

Note in both deeds the absence of the elaborate identification marks

usual in Egypt.

άμπελος, 1 A 10, B 11, etc., Π. A 6, B 7, etc., collective for άμπελών, e.g. Grenf, Rev. Laves, vol. 36, l. 16; P. Tebt. i. 64 a. l. 2; B.G.U. i. 33, l. 4. πλείω δύο δόστων μη πότιζε την άμπελον is an easy transition.

The absence of all description and abutments of the vineyard may be explained as in II by these particulars being laid down in the makana συγγραφή: not having to look into the details the scribe even made a mistake in the name, for Δαδβακανράς and Γανζακή cannot both be right.

τὰ ἐπιβάλλον μέρος, Α 12, Β 12, 28, cf. Luke xv. 12.

aspections, I. AB 13; Theophrastus, Hist. Plant, IV. iv. 11 seems to include the vine and olive in axpospora, but to exclude them in H v. 7, where the word means hardler trees such as apples.

Tors συνκύρουσεν, I. AB 14, the ordinary form in inserv. and papyri is

συγκύρω, ποι συγκυρέω, r. Ditt. O.G.I. 65.

каі ді) еўсотю к.т.д., I. AB 19, those warranty clauses are very much in common form.25

μηθενί, Ι. A 20, elsewhere always μηδείς.

i τρ αύτών, I. A 20, their agents improved in B 20 into με τα λαμβάνοντι τ[αρ' αὐτῶμ, cf. Η. Α 11 τους μεταλα[μβάνοντ]ας παρ' αὐτού = their successors or those deriving title from them, common in Polybius, of P. Tebt i. 61 a. l. 20, and passim_

iγβαλλομένου, I AB 22 the middle seems to make the case more

general, of ¿¿áξωνται, II. B 12.

καταστάς L A 22 B 23, having taken up the position (of a warrantor). of H. A 12, saveauges, absolutely 'appointed as surety,' more clearly in L B 29, δγγρου . . . κατέστησεν, Η. Β 10, βεβαιωτήν κατέστησεν.

διεξάξη: A 22, B 23 (cf. II. B 12, εξάξονται) apparently will obtain full eviction (of the claimant against Gathaces) true in P. Tebt. i 5, ix. 1 219, διεξώγεσθαι = 'be decided quickly,' ib. 8, 1, 11 'be put out of hand,' cl. Polyb. V. i. 5, and Moulton suggests see the matter through : but the use corres-

[&]quot; z.g. P. Eleja. S: Ad. Berger, Straftlauseln with P. Patr. His 22 (b): L. R. D. 44h. everis des Popprumrkunden, passim ypaphy disklaying.

ponds to ἐξάξονται, which must mean 'evict,' cf. B.G.U. iii. 1000, ἐξαγαγεῖν τὴν γυναῖκα ἐε τῆς οἰκίας μοῦ; for the middle cf. ἐγβαλλομένου. The commonest meaning of διεξάγειν is 'to carry on someone else's work.'

καθαρά ποιήση, AB 23, not merely as I thought 'act fairly,' but, as Mr. Bell tells me, a technical expression 'acquit,' like the mediaeval 'quietum facere', of καθαροποιέω in Byzantine documents, P. Mon. 4, L 31 sqq., τον δε έπελευσόμενον ύμῶν ἡ καὶ ἀντιποιησόμενον έκστησω καὶ καθαροποιήσω ίδιοις μοῦ ἀναλωμασε: εἰ δὲ ἀσθενήσαιμε περί τὴν τούτον καθαροποίησια, κ.τ.λ.

äκυρος I. AB 23, of a person 'having lost his rights' is classical Greek, but Moulton tells me he has not met it in Hellenistic, where it is only invalid as in IL B 14. This provision is usual from the earliest times, e.g., P. Eleph 3 (285 m.c.), ή έφοδος ἄκυρος ἔστω. Bell would translate, his

attempt shall be invalid, but to supply ecocos seems very harsh. και προσαποτείσει ην έλαβεν τειμήν διπλήν και άλλας επιτείμου δραχμάς Σ΄ και τῷ βασιλεί τὰς Ισας, Ι. Α 23-25, Β 24-25, οf. Η. Β 15-16, και τον άθετήσαντα έκτεισειν . . . δραχμάς διακοσίας και είς το βασιλικόν τάς ίσας. The enormously high proportion the total penaltics (ἐπίτιμον ιε the regular word up to Byzantine times ") bear to the original price (60 or 80 dr. + 200 fine + probably, 200 to the king : 30 or 40 dr.), fifteen or twelvefold, seems to me to be due to the price being merely nominal, a large part of the consideration being the labour that Gathaces was bound to put into the vineyard. It is however noticeable that even in II, we have in all a more than seven-fold penalty. Possibly native custom came in here, in a sale translated by A. T. Clay = the penalty is twelve-fold, all paid to the buyer if she is evicted. The high proportion that the penalty paid to the other party and the penalty paid to the state bear to the price shows also that the object was to make it very disadvantageous to the party wishing to break the bargain; in Roman law the penalty was more moderate, usually the double of the price, and was rather regarded as compensation: but the poema dupli is by no means exclusively Roman; it is found in Babylonian documents, in the laws of Gortyn and in other Greak inscriptions,20 but not in Ptolemaic paperi. Berger (p. 128) says it comes in about 100 a.p.: it also occurs in the Palmyrene tariff (137 A.D.) of It is such a natural proportion to fix as a deterrent that one dare not say that it is a Greek element in I :: yet it does lank like a proportion still holding its place in the text although now become a trifle in comparison with the enormous penalties beside it. There is no mention of compensation as such the βλάβη και δαπανήματα οτ άνηλωμένα » The payment to the king is usual in Prolonaic papyri, and in those of Roman date it is made ele vo composion: the advantage of bringing the state in to sanction the bargain is obvious and we find the same device in medineval deeds:

Bergez, og rik pp. 4-10.

[&]quot; op. cif. p. 27, No. 2 (No. 20).

Mittain, Recelercold in Vellaccold, p. 511;
 Gurtyn, Rec. d. Inco. Jur. Or. 1, p. 372, vl. 838,
 1 32; Heracles (Lucania), ii. p. 202, il. 100

egy ; Athena, ik p. 242, l. 18; Sardes c. 300 2.c., d.J.d. xvi. p. 65.

^{**} Ditt. O.O.I. 629, Il. 102, 121.

Berger, pp. 28, 183; A.J.A. los. c/L p. 89.

On the whole the nearest approach to our form is in B.G.U. L 350, Trajan's reign, l. 15, ar τι δ' αὐτῶν προγεγραμμένων παρασυγγραφήσε ὁ ὁμολογῶν ἡ οἱ ὑπερ αὐτοῦ προσαποτεισάτων τῷ Τανεφρέμμι και τὰ ἀνηλωμένα διπλὰ καὶ ῆν τι εἶληφεν τιμὴν διπλῆν καὶ ἐπίτιμον ἀργυρίου δραχμῶς διακοσίας πεντήκοντα καὶ εἰς τὸ δημόσιον τὰς ἔσας καὶ μηδέν ἡσσον τὰ διομολογήμενα κύρια εἰναι. The differences are that we have no ἀνηλωμένα, that as the price in the Egyptian document was 500 drachmas, the penalties of 250 drachmas each to the purchaser and to the state together only make up the price once, and that the last clause of the document quoted has no counterpart in either L or II, in which, though no doubt implied, it is not expressed that the contract is still binding after the fine has been incurred

and paid.10

These same penalties except perhaps the duplum pretii fall on Gathaces in L if he neglect the vineyard apparently the whole vineyard) and do not make it exactor, A 26, B 27. This word is new and difficult, but the reading is quite certain. It ought to be the opposite of avendor which often occurs in sales of land " or in manumissions " and sales of slaves 100 and evidently means 'subject to no claim.' According to this exacos would be 'duly subject to claim,' i.e., 'duly acknowledging the original claims of Baraces and Sobenes by rent or service,' but it seems more likely that it is a viticultural term, and Moulton suggests ' tied up,' i.e. the vines tied up to the trees or stakes. Mitteis in his letter says, avenapos . . . heist unberührt, also έπαφου ποιείν, in Kultur bringen Gegensatz ψειλόφυτου. would be giving a meaning of manus injectio in a very literal sense; whatever the exact meaning, Gathaces has to work the vineyard properly: that this is a strange provision in what purports to be a sale has been already remarked, but if a man lets unother in to share a vineyard it is essential to him that his new partner work. Apart from Baraces it is probable that the σύνκληροι who shared the water had an interest in the vineyard being properly kept up.

* καὶ τὸ τόδωρ κ.τ.λ., I. AB 27. B only sums up the matter of the water but A means to be more explicit: παρὰ ὀγδόην ἡμέρας τὸ ἡμισυ καὶ [τὸς ἐ]παγωγὸς τὸ ἡμισυ; whatever the word be, ἐπαγωγὸς

and the like; of, his summary, formed: II. I. p. 194, a 2. In a Stressburg pap. (Preisigle, Arch. f. Pap. iii. p. 419, L. 30) this is very stear, but the document is ath cent, and verbess. Berger, on cit. p. 140, n. 4, makes I; equal means inserted following forblor, At al. Sections Stoftung (Rome, arxiv. (1908), p. 474-479, in spite of a methical reply by Saithoff, to xxx. (1909), p. 496-400. Mittels, fee, dir., remarks that drasps may have more than one meaning, and our document goes to confirm this. Here werden are proposes 'undersee that to demonity and post approach, as he thinks no min sould fail to spot laptosy, but Sudhoff says the early stages may well be overlooked.

^{**} Barger, p. 125. C.P.R. 220, is very

Выгриг, р. 82.

^{# 4.9.} Mittels, Grunde, II. il. 253, 1 12; C.F.R. 220, L 11

Participation and Phanagoria, corresponding to arrigance at Belphi, Det. Syll. 861, 1, 8; 882, 1, 11.

I. A 28, 29 mentions three witnesses Chosstroes, Apaces, and Miridates: in B 30, 31 the witnesses are Denobarus, Miridates, Phrahates and Marzu while Chosstroes and Apaces are taken out of the class of witnesses by being appointed έγγνος καὶ συνέγδοτος: by whom is not clear owing to a gap in the parchment, but, as Dr. Hunt says, this gap is too big for ὁ Βαράκης alone and in spite of the singular verb κατέστησεν we may supply Βαράκης καὶ Σωβήτης: it is just conceivable that, as the contract is no ordinary sale but involves the buyer as well as the seller in future obligations, buyer and seller joined in naming the sureties or each named one for himself, so that the last words were Βαράκης καὶ Γαθάκης.

Grammatically Chosstroes ought to be έγγνος and Apaces συνέκδοτος: this is just possible, Lyyvor being not the same as Bellauring. Partsch " shews that the latter is only the guaranter of the buyer's title, whereas the former is any sort of surety; in this case he might be surety that Gathaces would fulfil his obligations: συνέγδοτος is apparently a new word and its meaning accordingly uncertain. A bride is called if bycorec. 101 (given away if our word is meant as a passive it must mean 'put forward (by the vendor) with himself. But it is quite likely, as Professor Deissmann suggests, that συνεγδότην is meant: ἐκδίδωμε or ἐκδίδομαι is used of the Aussteller, the man who executes a document, 105 also of the lessor in the parable of the vineyard, 108 and the συνεκδάτης would be the man who joined with the vendor in executing a sale and acted as warrantor, or else the co-lessor =συμβεβαιωτής 195 or Βεβαιωτής: but it is more likely that the intention was to say that Chosstroes and Apaces were appointed Fryum sai συνέκδοτοι. eyyvos being practically a synonym for BeBauarijs (cf. the passage just cited) and συνέγδοτος much the same thing: the βεβαιωτής is often a person who is named near the beginning of a deed alongside the vendor as ἀποδόμενος, 106.

[&]quot; Aristot, H.A. VII ii 1,

The Revenuel H. E. Fitzherbert, out of his practical experience of triggation, approve this view; cf. Col. P. M. Sykes, History of Person, it. p. 485. Rach villager receives scates every tenth day for about six or seven hours from the Sonat; G. N. Curson, Person, i. p. 113 n.; Polyhim, X. xxv. 2.

int Ge, Europaha/turceld, L. 1909), pp. 349 sup.

¹⁰⁴ Grenfell, Erode Fragment, E.7.

The Hearworden rites P. Flor. B5, L 15, storefficer why fractic; ef. P. Swenf. H. 80, L 18; 81, L 18.

[&]quot; Matt. zzi. 33.

Р. Lipe, i. 4, l. 6, cf. il. 13, 34 : 4үүндай
 ed торы-Вай (Mittels, Grunde, II, ii, 171)

¹⁰ Delphi, a Partick, sp. no. p. 250, n. 2

συντυδοκών. 100 συμπρατήρ, 110 συντικελεύων και συντωλούμενος 111 as being a near kinsman with a claim to the property, whose warranty would be of special value. This seems to me 112 quite a different thing from the old use of calling him actually προπωλητής, προαποδότας and even πρατήρ, 112 which meant that he was originally a kind of deputy seller with all the responsibility of the sale. The important thing is that our documents agree with Greek usage against Graeco-Egyptian. Egyptian law not requiring a warrantor in a sale, the Greek warranty formulas were reduced to an absurdity, e.g., P. Lond. 1204 just mentioned ends up προπωληταί και βεβαιωταί Τ. εαί Σ. καί Τ. οί ἀποδόμενοι, οδε ἐδέξατο Κ. ἡ πριαμένη. 114

In I. B 29 we have the byyour rai συνδηδοτος appointed, but the words have to speak for themselves. In II. A 12 the appointment of Arthusthates is mentioned, but it is only in B 11-16 that any attempt is made to define the responsibilities of the BeBauarie; these are not quite in common form and as the text is very careless it is hard to know what to make of them. In lines 11, 12 we learn that he came in person and promised to guarantee 'the aforesaid two cotylae.' I think it is almost certain that this is a mistake, but I am not sure what ought to stand instead. The guaranter is generally only concerned with the vendor doing his share of the bargain, i.e. giving the buyer a clear title, so that we might expect (as I said above) την προγεγραμmeror anachor; but the way in which he is coupled with the vendor in the next clause makes me wonder whether here he is not supporting the credit of the buyer and we should not read the ve opaquas mpoyeypaumeras, or conceivably, if car enarrow applies to all the payments and gifts following, he may have meant the due future payment of these. The ordinary warranty on the part of the seller and of the guaranter as against any claims to the vineyard is expressed in Il 12-16.115

The carelessly written addition at the end of L A has perished in two critical points: the last three lines of B make things a good deal clearer, but they too have suffered and the interlinear additions are illegible. In a way they correspond to H. A B 9, 10, but here again the text is confused.

I B 32-34 is on the whole the most hopeful. The buyer gives the vendor in addition to the price one duchma of \$\vec{\pi}\partial \text{paθρόν}\$, some meat, 50 baskets (, \$\vec{\pi}\text{λλαθοι} \text{?) of loaves, two cotylae of wine, and something else added between the lines. The vendor gives the buyer \$\vec{\pi}\text{λλαθοι} \text{λην}[ού τὸ] \$\vec{\pi}\vec

^{= (}bid, and Ilitt. Sp27, 2 850, 1 20.

¹¹⁰ Mittele, Zeacherocki w Falker, p. 504; Lex Rhet, ap. Bekker, Ancoiste Gr. i. p. 103, iii. P. Lond, 1204 (iii. p. 11) II. l. 17 (Mittele.

Grands, 192)...

in pace Mittels and Partsoli, fee, oil.

in Rev. Janes, Acr. Sv. i. pp. 64 app., Plato, Leges, xl. 015 ii.

in For this question of surery and surranty, bundles Partiell, ep. cd., whose Part I, only deals directly with old Greek law and not with

papyri, r. Millels, Orme. II, t. pp. 264-270; Brv. La Finde, pp. 267-294; and Thathelot, s.c. SeSalores and Syyon in Pauly-Wissews.

We first the same 'statement and is only apperiring the obligation, not adding something to it, so that I should take the way. Sameter (or reserve) as the probable correction.

¹⁰ In C.I.G. 1838 b. l. 5, Corcyra, it is only minuster.

MSS.*, Pl. VI., but it is perhaps more like a c'.

that came off maturally and that which required pressing and was of inferior quality who a which I cannot make out, and the squeezed raisins left in the wine-press; the transfer seems to have occurred just at the moment November, when the wine had been made and as Gathaces was taking over the concern he received these materials just as they were: perhaps the extra ten drachmas put on to the price in B represent the value of these materials. Of this transaction there is no trace in A. But A gives us another version of his payments to Baraces. The bread seems to agree and the wine and the drachma of EvBallpov: the number after the coeffer looks like he in A and ee in B; further in A we have show a (1) and Soes n', which are not represented in B unless perhaps at the end of 1.32 or in the interlineation: exoc is quite unintelligible, it is certainly not written shas though Hunt and Bell have proposed so to correct it. It is a temptation to read reless or suchos, but A does not allow of it. The corresponding clauses in II. help in one or two points: they confirm the interpretation e B as κυτύλας δύο, a most extraordinarily small quantity, otherwise we might have thought of xopor, 11s also the bread, 50 baskets in one case and 21 in the other, and side by side with this small beer, as Moulton calls it, we have quite clearly five oxen as against the eight in I But for the exen these things might be merely materials of a feast to celebrate the bargain, such as was customary in Babylonia and elsewhere. and the two measures of barley in H. A 10 would not have been out of scale, but the oxen are certainly a serious part of the consideration. It is curious that they do not come into I B unless as an illegible addition.

Then in II. we have a drachma έμβάθρου and a drachma σκέλος. The latter is quite unintelligible: it looks as if it might be a new rendering of feeel beside σίκλος, σίγλος. ΤΑ 9 makes it appear that it was a yearly payment, but in B 0 the έμβαθρου is called yearly. However, it is likely that this is a mistake; perhaps the σκέλος was a yearly charge on the land either as an acknowledgment or a religious tax. The ένβαθρου, I. A 30, B 32, II. B 9, fee of one drachma is new; it seems most probably to have been only paid once and looks as if it were a fee for taking possession, Mommsen's definition of τὸ ἐμβαδία is when a mortgagee forecloses and assumes possession (ἐμβατεύει) of a property. ΤΕ

With regard to these extra payments, it seems just worth mentioning that in Babylonian sales there are sums in addition to the purchase-money.

**g. Iddinus-Nahu ... has declared that he has bought and pays 1 mins 7½ seeds money as his full price and 2½ seeds money as at-ri is to-bar-ri to

¹⁰⁸ A measure =75 gallions: Jessphus, Ant. Just. XV. iz. 2. Aramain the corresponding to Helicre homer.

ornstruct 200; ordios parings the plural

¹⁼ Wilchen, Gr. Ostroko, 1024, 1287, 1262, 111 *Lex. Rhet, up. Bekker, Amed. Gr. p.

^{249;} ef. Millian, Grande, H. i. p. 161, also his 'Geschichte der Erigse-hi,' Abbill, d. sücks Gen. d. Wass., 22. No. 4, p. 9.

the lady of the house he has given them, total I mins, 10 sequis money, ¹²²
At-ri w tu-bar-ri are explained as 'extra and as a dress,' i.e. a complimentary present making up a round sum. ¹²³ A little further on (I, 31) we come to '3 sequi money as a present for scaling,' but this is the scribe's fee.

Lastly, it may he noticed that neither document has any mention of an ἀρραβών, which is not indeed very common in Gracco-Egyptian sales. 198

II.

Most of the points in II. have been discussed in connexion with

corresponding points in I., but a few remain to be disposed of.

ψειλόφυτον, A 6, B 7: Mittels in his letter takes this new word as bare and uncultivated, being the opposite to ξπαφον, but another possibility is that the opposition is like that in Arist. Pol. I. xi 4 (1259α). Theophr. Cans. Plant. III. xx. 1, ψελή γεωργία, the tillage of land for corn and the like as against γεωργία πεφυτευμένη, tillage for vines or clives, i.e. that the vineyard in question was situated among the corn-crops, not among the other vineyards.

δς κ[al πάρω]ν, B 11, a certain restoration by Dr. Hunt on the analogy of e.g. P. Lond. 154 (ii p. 179). L 17, παρούσα δ΄ ή τοῦ Ἡ. μήτηρ εὐδοκεῖ; or B.O.U. i. 96, L 14, 183, L 10 (Mitteis Grandz, 313), 251, L 8, 252.

I. 10, ste.

ἐμποιήθη, B 13, regular word for preferring a claim, e.g. P. Lond. 154 (ii. p. 179), I. 14, B.G.U. i. 13, I. 13; iii. 987, I. 11 (Mitteis, Grandz. 255, 265, 269); so A.J.A. xvi. (1912) p. 13, II. I. 2 (Sardes).

петрациентя. В 13, perhaps the spelling is on the analogy of усурац-

HEVRS.

παρευρέσει μηδεμία, Β 14, Docret. sp. Dem. 238, 6; P. Eleph. 1, 1, 9, and constantly afterwards.

άκύρην, Β 14, for the form of άνεπάφην, Los.P.E. in 54, 1 10 ; φιλα-

86x6m. Ditt O.G.I. 30, L 2.

down δίκης και κρίσεως, B 15. Mitteis, Grundz. II. i. p. 120 and ii. introd. to 62, regards this clause as more verbiage; it does often continue with και πάσης ὑπερθέσεως και εὐρεσελογίας and the like, but it must have been meant originally to give a summary right to the fine, in Babylonian deeds we have the one who shall after this shall pay, without suit or protest two minus, etc. 10.

HELLENISM IN MEDIA AND MESOPOTAMIA.

But all these things are the merest details. The real interest of these deeds is that they show the use of Greek law and Greek speech in a region

¹⁶⁸ F. Pober, Bahylonische Ferfräge, p. 131, No. zeiv. Sr. Mus. 84, 2-11, 103, il. 13-19.

¹¹² Pelast, Kellinscht/Dicke Alternatische, pp. 82, 83, 84, in not quite pleased with the

[|]endering

iiii Rry, op. caf. pp. 104, 118-122; Mittels, Hermit. II. i. pp. 184-188.

⁼ A. T. Clay, ep. rol. p. 29, No. 3 (No. 24)

wherein we did not dare to hope for it. It is true that Polybius (X. xxiv. 3) speaks of the many Greek cities established in Media by Alexander in order to keep watch upon the barbarians that pertain to it, but this is equally good evidence of the strength of the barbarian element. Of the many Greek cities, we only know of Europus, which was a refoundation of Rhagae, a Heraclea nearby refounded as Achais a Laodicea and Apamea Rhagiana, 120 Perhaps Avroman was more nearly connected with the lower course of the Diala, the region of Apolloniatis, with Apollonia and Artemita, 177 towns which must have had some Greek population.

As to Greek law being used in these parts, the nearest hint of it hitherto has been the existence of the Syro-Roman Law-book, preserved in Syriac, Arabic, and Armenian versions.¹³⁸ According to Mitteis,¹³⁹ in its non-Roman parts this is mainly of Greek origin and contains the remains of the law of the Greek colonists practised by them in their free cities. This Greek nucleus was never dissolved away by the Oriental elements nor quite superseded by Roman law. No doubt it is more an evidence for Heilenistic law in Syria than for such in the Eastern parts of the Sciencid monarchy. but our documents show that Greek was the law language even here : they mark the last supplayment of the language, for the third document and the endorsement of I. are in some other tongue. 100

Apart from its use in law other evidence goes to show that Greek lost ground very rapidly just about the beginning of the Christian era. DI the few Greek inscriptions that come from the east of the Euphrates " only that of Gotarzes is later than this period and it is to be classed with the inscriptions of Ardeshir and Sapor, and with the com-legends 16 as evidence of the prestige rather than the actual use of the Greek

Older inscriptions come from Babylon 130 and Snaa, 137 and show that the Greek colonies in those towns had the regular Greek organization; no doubt

¹⁵ Bernn, House of Selencia, 1. p. 264.

^{##} Home of the Apollodores whose Thursday we mise so much.

⁼ Ed. Bruns Sechon, 1889.

in Renhereski u. Felkweiki, pp. 30 syg.

¹³ V. Chapet, 'Les Destinées de l'Hellenisme au dela de l'Euphrate," Mem. de la Soc. der Antipusing de France, Irill (1904), pp. 207-496, reviews the question very fully a our dominants cand to show that he undervates the Greek

III For its use so a lingua franco in lower thaldow sud contwords along the coasts, see J. Kennedy, "The Secret of Kanishka," if J. H. A. & 1912, Dr. 989-1018.

ms D.G.L. 481. 14 (1.47. 1. 432-434...

in See Haussmillier's list in Melicope Perrot. pp. 158, 159, and Klin, in pp. 252-363.

The Greek sevence naturally struck coince upon Greek standards which built to be tested by Greek weights, e.g. A. Doment's (Milanger, pp. 134-154) inscribed Geologico Actonalyou aγορασιασίατας χροσαί δία (17 grm. =2 statem), from \$π. (55 n.c.), from Hillah, showing how late Sciencist gold (as there is no Parthian) was still in suculation in Babylon.

¹⁰ O.G. f. 253; 254; " and " move, p. 36; 3. Opport, Erwit Smart, in Minipatamic (1868) t. p. 168; Diment's weight; and a disk with 'Apierrens St EAAn Seegan 'Apporting Teres showing the first stage of Orientalization, up. Haussoulther. X160, ix p. 302.

^{17 0.0.1.747} and the is role afpayment. W. K. Laftna, Transis and Emerches in Chaldaes and Sustanu, pp. 403, 404; Haussoullier, Mill, Porret, p. 157.

the same is true of Orchoo (Erech) ¹⁸⁸, the long letter sent by the far Eastern Greek towns, Seleucia ad Tigrim, Apamea ad Seleam, Seleucia ad Mare Erythraeum, Seleucia ad Eulaeum (Susa), and others to Magnesia ad Maenudrum, shews that they had masters of the complimentary style of the third century n.c.¹²³ At any rate the great Seleucia ¹⁸⁰ produced a few authors whose names have come down to us, and Charax has Isidore to shew, whose \(\Sigma\text{Tallpoi}\) Haplicol I have already quoted, but our pieces are very

nearly the most easterly examples of continuous Greek known.141

When the Parthian kings and their court were brought by their conquest of Susians and Mesopotamia into close contact with large Greek settlements they certainly put on a veneer of Greek culture. The epithet of φιλέλλην was the outer symbol of this, but its reasons were political: the Greek cities were the natural allies of the central power. They could furnish the king with troops estranged from the provincial levies and with educated men for engineers and diplomats: he could keep communications open and allow commerce to pass. The enemies of both were the under-kings and satraps whose power rested upon local and racial particularism. It was worth the Parthian king's while to proclaim himself a friend to the Greeks and to try and turn their eyes away from the sinking power of the Selencids and gain their allegiance for himself. Once masters of the Mesopotamian plain the Arsacids found it the richest part of their empire and made. Ctesiphon one of their capitals. Here they could enjoy the lighter side of Greek life and took to themselves Greek concubines or even wives from among the semi-Greek dynastics of Western Asia. Through these Greek speech and Greek customs naturally entered into their lives and it is not surprising that the Bacchae of Europides should have been playing just when the head of Crassus was brought in. The story aptly illustrates the quality of Parthian philliellenism. It looks, however, as if even this veneer grew thinner after the time of Phrahates IV. The Greeks of Selencia ad-Tigrim and the other Greek settlements were being assimilated by the intives; their towns were less flourishing as the irrigation works fell intodoesy. The petty dynasties had mostly been extinguished and the Cleopatra of H. is probably the last Greek wife of a Parthian king. Musa was really only a slave girl. The corruption of the coin legends and the gradual introduction of Aramaic letters show how far things had gone, for conservatism has a strong hold upon coms: English has only got on to one side of our silver and copper and is not yet allowed upon gold. Still some Greek life probably survived until the destruction of Sciencia in 116 a.D.

A T. Chay, sp. csf. pp. 16-18, gives 24 Greek names from conneitorm tablets found here; a Greek annually definates a clave girl in a native temple. Cf. Opport Menant, Democrate Juridiques, p. 523, a Diocies, son of Annuaballities and an Islines, cf. Ann. Originary Me. G. dictions, p. 63.

UP Se O.G.Z. 231-233.

⁾⁼ Chared, sp. sol. pp. 240-246. Opport's

Herodium of Babylon could even write vere to make fun of the Alexandrian boxtoni critics, up. Athenaeum 227a. We have an Aramasan's name in tirock in C.I. Semit. II. 72 from Tellah. II. 300, AAANAAINAXHE, CRITICAL

³² The Book of Tobit is now supposed to have been written in Egypt and perhaps in Aramaic.

				10,0000	Table (Section)				200	785-2510 (1980)
1	II	III	IV	V	VI	VII	VIII		17	בדנעפש
3	1.5	X m-nac. K n-1 ac Persis.	-	目	- 2	- 2			4. 3.	בנייר עינף
3	94	2	5	27	118	9 8	7	2	3°	2753
24	廷	200	E	Ĕ	33	33	2	2.5	47	צפטונכ
#	2	自己	5	27	8	34	200	Values.		يدر لو
60	4	X H-13.c	 4	1	₹	さ	Š	3	5* 5 ⁸	ובחץ
K	-	K N	7	N K	N	ı	3		3	Eredd
7	4	7 4	G KAvroman I	田urmouny プップ	7	5	z u k sogdian.	b	6.2	צתעים
7	ĭ		1	2 01-2					727	Kirk di
4	7	ΛV		7	7	2	7	5	7:37	73 Y HYY
四人のころしている。 のコーーコートスを	ってはくしてとしてというという	4 3	4	ノイストラ	I U U L'Arsacidie	Z .J U U E Chaldago	3	g d	35	79
77	A	TIM	N	H	N	N		h	5.	דעונ
4	4	- 1		1	2 0				1,2,3	学を挙げつ
	,	9. 1		Jor?	3	3 5 5	9	w	25	プカカオ
1)	1	,)		5	K	z	3° 43 6°	רעוע.
TT	H	HH	D	1	1- 5	70			類	כנמאותי
		2000	17	10		9	37		6.	<i>בננני</i>
0	$\boldsymbol{\nu}$	- 8					- %	ţ	7	אמי
		3 1	9) _{or})	1	(4	h. t. y	中門門	CCXK
44	ч			u	100				99	נדיכוב
ارا	1)	11	7	7	4	כן	77	k	2,8	MARINA
7	-	-)		1	Jord	4		ı	28	ZINING OIZ
חח	ユンカ	3%	カ	フラカルロソ	*	コレストロト	ろっ		29	ננ ממחמך מלג יבק
	100	4 4	,	"	~	"	77	m	1641	מני
()	טלנ	- 0		1)		ر	יינ	n	427	10
'n	4			'n		n	'n	ş	66	מקרמדי
"	12			1		"	7.		62	מצחיניכ
У				y			1	c	3	(וכנכ
95	1	2		200D	D	B	0.0	p	3° 3883	וכנק
1220	4			2012		12	29		7.	
13	L.						*	13	4	תרתחוכ
7	12	Desi					100	9	6.7	מעוד
5	ч	4 4	u	ч	Uw7	3	36	-	2,8	Y)Y
***	1.	1.024		1		,	7	U	1,2:	,,,,
U	V	48	V	9	W	Y	N	Š	2	Pally
ח	1	p b	h	12	h	h	Ь	t	3	ק ונעק
2 5	/	er le	1	220	100	1	1	8	12	קנבק
	333		2	130				60	2904	John
	WIF	+)		ינוש		١٩		100	3,8,4	(St co)
Avroman Alphabets to illustrate Ill and List of Words										
THE RESERVE		A COLUMN TO THE PARTY OF THE PA	A PROPERTY OF A PARTY	THE R. P. LEWIS CO., LANSING, MICH.	STREET, STREET,	- LANGE VE	THE PARTY NAMED IN	A	F T. W	CONTRACTOR OF THE PARTY

In preparing the paper I read to the Society and now this article I have received help from so many scholars that it is hard for me to give each his due. My first thanks are to Professor Browne who entrusted the documents to me. In the work of deciphering Professor Burkitt helped me at an early stage. Then Mr. H. I. Bell of the British Museum, to whom I submitted the originals, gave me a whole day's help and advanced things very much, though as we worked together I cannot exactly say which readings are his and which are mine. Since then he has advised me on many points and has read through this article in MS and set me right in sundry places. Professor A. S. Hant of Queen's College, Oxford, suggested some most valuable improvements and supplements, while the Reverend H. S. Cromin of Trinity Hall and Mr. B. Haussoullier, Fellow of the Institute of France, pointed out certain inaccuracies in the transcription I circulated. Remarks of Sir Frederic G. Kenyon, Dr. Hunt, and Mr. Bell, threw light on the palaeographical side, while the linguistic and legal interpretation has been advanced by suggestions from these same scholars, from Mr. W. H. Buckler, Professor A. Deissmann, Mr. Haussoullier, Professor L. Mitteis, Dr. J. H. Moulton, Dr. F. Preisigke, and Professor Rostovisev; it was a great regret that I could not add Professor U. Wilcken's name to this list. Dr. L. W. King and Canon C. H. W. Johns, Master of St. Catharine's College, Cambridge, have given me much assistance in matters that involved Assyriology.

My very special thanks are due to Dr. F. J. Allen of St. John's College, Cambridge, for the care and skill which, after the failure of a professional operator, he gave to photographing the documents.

I cannot close this paper without once more praising the enthusiasm for knowledge which made Dr. Sa'id Khan save for European science these memorials of the former use of a European tongue among his Kurdish hills.

APPENDIX.

The study of Document III, is not Hellenic, but it cannot well be separated from that of the two Greek deeds with which it was found.

Unfortunately, although I have consulted everyons within my reach who might appear likely to help, I have not been uncrossful in identifying the language. I extend think that it is Aramaia or Dr. Cowley of the Bodloian or Mr. S. A. Cook would have made it out. The natural inference from the Iranian names of the witnesses in the Greek deside suggests that we have an Iranian tongue. Professor Andreas of Berlin is said to have read it as Iranian and Professor Lidzbarski is quite clear that it is not Aramaia, the though containing Aramais words, whereas Professor Littmann has read the greater part of it as Aramaia institute out their name of these scholars have told as exactly what they have read, so their successes are no help to us.

Probably the document is in an early form of Publish and as usual in Publish and also in Segdian there are many "logograms" or "eryptograms," ris. words written as Semitic but read and procounced as Iranian, just as we pronounce viz. (vidalicet)

maniely." The only one that I seem to identify is \$18, 'from,' which occurs twice (47,70), but as I know neither any Semitic language nor any Iranian I cannot do anything.

It is however possible to place the script in its position among known alphabets. Table II, shows this clearly. Without claiming much for the values I have assigned to individual letters I have had little difficulty in arranging all the forms present in the document in mon a way as to make them correspond to forms that we know from coinsminted in Iranian countries; Column III, shows the earlier and the later forms of the letters on the coins ascribed to sub-kings of Perus during the later Sciencid period as set out by Colonal Allotte du la Fuye. (1)

The coins of the Arsacida thensadves (Col. VI.) do not bear Pahlavi until the time of Volugases L, A.D. 51-77,140 and thou but one or two letters; full legends only come in with Mithradates IV. c. 130 a.n. The come are unsatisfactory as the letters are very hadly formed and we cannot make up the full alphabet. The letters lacking in Sassanian Pahlavi z. z. z and z (t, ', ts, q) are naturally absent from the coim, " but we have no certain n. n. ; or p (z, h, n. e). I have put beside the early coins the alphabet (Col. 1L) of the Aramaic papyri and inscriptions from Egypt dating from the fourth and the third conturies n.c. 14 The writing on the back of I. (Col. IV.) is noticeably more like these, being more apright and less flowing than that of III. It is most unfortunate that there seems to be no Aramaia writing from Mesopotamia that we can well compare : the dockets on cansiform tablets are much too old, and the letters on the tile of Hadadmalinakh (p. 61 n. 140) are quite epigraphic. 100 Col. I. shows the square Hebrow, closely allied and yet familiar : note that the final forms are the more original. On the other side I have put the so-called Chaldaso-Pahlavi (Col. VII.), it and the alphabet of documents in an early form of Sogdian dating from about the second century A.D. and found by Sir M. A. Stein on the Chinese Emes in It exhibits a different application of Aramaic letters to an franian language and is only helpful in one or two cases. I have added a list of words arranged according to their first letter; they can be identified by the numbers giving the lins and the place therein. (The third word in the list is 2°, not 2°.)

⁽⁴² Etinde sur la Numismatique de la Perside, B. V. Hend, Corolla Numivantica, pp. 63-97, Pl. III.

⁽a) Wroth, sp. col. p. 272 | D = p comms from Markov, Tr. Russ. Arch. Sec. Orient. Sect. vi. 1891, pp. 265-304, *Urquidished Arascid Coins,* Pl. III. 22.

Markov, op. off. p. 298, Pl. 1V. 28, gives a coin of Sanahares from which we should get wand z, but hiralphabet is more Kharouthi. and s.g. U. Lo. H. 146, 147, and 142.

^{**} The alphabet of 'An Aramatic Inscription from Taxila,' Barnett and Cowley, J.R. d.S. 1915, p. 34, is waterly never ours.

¹⁶⁶ E. Thomas, J.R. A.S. 1868, pp. 241, 265, pp. 3.E. S. 5. 1911, pp. 159-166, A. Cowley, "Another Unknown Language from Engineer Turkestan," as modified by R. Gauthiet, the pp. 497-507. Note our is Langue et l'Écriture incomones des Documents Stein-Cowley. These

were pointed out to me by Professor Rapson.

may be a 2. Several words and in what looks like 7 but I think it is more like P: that is perhaps an argument for Aramsia. In book Pahlavi these letters except 2 appear only in Semilic words; also recoincides with resust perhaps one character served he both in our alphabet, esting free for a and thin second forms I have suggested.

The Professor I. H. Gray road 15th as QHTHE BS QUDC and 2° as MLK, which disagrees with me in nearly every particular. Professor Bartholomae roads this last word as worsk, M. Pem. 'number,' and 3° as are, 'worth,' with the numerals following, but I do not (sel inclined to give up my p and 5.

mi Cf. the numerals in C.I.S. ii. 146, 147, and Lidzbarski, Handb. d. Nordszudtsches Hpigraphik, p. 200, Pl. XLVI.

PARCHMENTS OF THE PARTHIAN PERIOD FROM AVROMAN 65

Any Aramais alphabet is sure to have z, \(\tau_{\tau}\) (7) and \(\tau\) very much alike; the details are only to be distinguished by the sense, but we have \(\tau\) shaped letters enough to represent them. Again \(\tau\) and \(\tau\) are likely to be indistinguishable and \(\tau\) or \(\tau\) may come very close to than in certain positions. In the other cases we have in evidence to make its lean more on the earlier coin or papyrus forms or on the Arasoid or Chaldase Pahlavi. \(^{10}\) Everyone has had hopes of the word I' which occurs no less than nine times \(\text{cop}\), bond, both, have been suggested, but it is more likely to be a copula. Dr. Cowley's suggestion that I' \(^{10}\) are reg. 'year,' followed by a number with a termination is most attractive. One would choose 300 or so, making the date a little later than II., and I seem to see a sign for 3 followed by a kind of \(\tau\) not unlike the bundesd in Aramaic, \(^{10}\) but I cannot get anian an arm and of the following words. I cannot resist a guess that \(^{0}\) is a compound of Mithra.

We must be not immindful that the language may be Kurdish, or something quite unknown; the Iranian proper names spread for beyond the limits of Iranian speech, but we must first of all look to Aramsic and Iranian scholars for help in a problem which transcends the limitations of Hellenists.

ELLIS H. MINNS.

same principle, though the sign is not like this. If this is eight the words marked 1th and 1th in the list must be corrected. FOR is the regular 'logogram' for year in Pahlavi. It would give 2 only the long form in Col. V.

帖

in I more and more incline to my second thoughts for and 6.

⁸² c. Lidzburski, Ioc. ett., better still, Sanham, drammieche Papprus und Corrako aus Elephantine, Pl. 52, 1-11. Pahlavi hundrede go on the

A SILVER DISH FROM THE TYNE

In the Journal of Roman Studies for last year! Professor Haverfield gives an account of certain silver vessels of the late Roman age found on the banks of the Tyne, near Corbridge, in the eighteenth century. I wish to discuss in some detail one of these vessels, which has great importance for the history of late Greek art. This is the remarkable dish or lank found in 1735 on the morth bank of the Tyne, now belonging to the Duke of North-amberland, and kept at his castle of Alawick.

Other vessels of silver were found, not with it, but near the same spot: a two-handled cup, a bowl bearing the Christ monogram, a silver basin, a small silver vase. Professor Haverfield has figured these, so far as he could. That all these vases belonged together is probable though not certain. Only one of them bears a clear indication of date, the Christian monogram, in the form which it takes on coins of the Constantine period. This particular vessel one would naturally give to the time of Constantine, that is, to the earlier part of the fourth century. It does not follow that all the vessels are of this date: but as we shall see presently, it is a date not unsuitable for the dish which we are considering.

There is no reason for connecting with our dish another said to have been found at Risley in Derbyshire in 1729, and published by Stukeley, which resembles it closely in size and form. This dish has disappeared, and we have only Stukeley's engraving of it to go by. It bears engraved on it the name of Exsuperius, Bishop of Bayeux; evidently it had once belonged to the church treasure of that city. It has a border of pomegranates. In the midst is a boar-hunt, and ranged round the sides are scenes from country life. This dish is of decidedly earlier date than our lank, and as it must have been brought from France we may dismiss it as irrelevant to the present paper.

Unfortunately I have not myself seen the Corbridge dish. But the Duke of Northumberland has kindly allowed Professor Haverfield to examine it and take a photograph. He reports that the size is 19 inches by 15 (about 49 by 37 centimetres), and the weight 148 onness troy (about 46 kilo-

J.R.S. 1914, p. 6. The hillingraphy of the result is given at p. 12. I ove to Professor Havefield a kind permission to expeat his illustration.

Stukeley, An Account of a large Silver Plate, etc., London, 1786. G. Morin, in the Melanges de l'écale de Reme, 18, p. 363, Pi. X., repents Stukeley's plate.

grammes). The figures are in relief; the inner markings made with a graving tool.

It will be well to begin with a detailed description (Fig. 1). Round the edge runs a border of alternate vine-leaves and bunches of grapes, with vine-tendrils. Below, in the foreground, is a meadow in which plants grow, and in which (from left to right) are, (1) a vase from which water flows in a rocky corner; (2) a dog, wearing collar, looking upwards; (3) a prostrate stag; (4) an alter, a flame on it between fruits; (5) a griffin looking back at



Fro. 1.-Survey Dino smore Consumum.

the altar: (6) a plant, possibly papyrus. In the line above (from left to right) are, (1) Artemis in chiton and cloak, carrying arrow and bow; (2) a tree of micertain species, in the branches of which are an eagle and nine small birds: beneath it an altar on one side, while a shield rests against it on the other; (3) Athena, cloud in chiton and cloak, believe and aegis, with raised hand addressing Artemis; she holds a spear in the left hand; (4) a standing goddess wrapped in a mantle, a chaplet of pearls on her head; her right hand is raised to her neck, in her left she holds a long sceptre; (5) a scated goddess, veiled,

turning round to address (6) Apollo, wearing cloak over shoulders and boots, who holds in his right hand a laurel-spray over a tall erection; in his left a how. Behind him is his lyre, which rests against one of the columns of a shrine wherein Apollo stands. This shrine seems to be circular; there is a roof with finials supported by two columns with spiral grooves and acanthus capitals. Behind the seated goddless is a globe resting on a pillar; fillets hang from the roof of the shrine and the tree.

The meaning of the group is not at all obvious. One cannot be surprised that writers who have mentioned it have regarded it as an unmeaning collection of deities. But an ingenious Northumbrian, Mr. Cadwallader Bates, suggested that the subject was the Judgment of Paris. He gave no reasons and identified the figures wrongly. Yet I think that his guess hit the mark. On close consideration I have no doubt that the subject is a late variation on the theme of the Judgment of Paris. This may seem to be a paradox, but the line of descent can be made out quite

clearly.

In the earliest literary version of the story, that in the Cypria, the award of Paris is decided by the offer to him by Aphrodite of Helen as a bride. In later writers this notion of promises or bribes as determining the decision of Paris is carried further. In the Trondes of Euripides the three goddesses fairly compete with promises; Athena promises Paris the conquest of Greece, Hera a wide kingdom in Asia and Europe, Aphrodite offers Helen. And in Isocrates, we have a similar version. In the vasepaintings also, with a few exceptions, no stress is laid on the personal charms of the goddesses, but rather on their promises. On the earliest vases we have merely processional schemes; later the deities stand in order with their attributes; only one very charming vase represents them as beautifying themselves for the competition, Hera looking at herself in a mirror, Aphrodite putting on jewels, Athems washing at a spring.6 Later, in paintings at Pompeii, the deities do not usually display their charms. On a few Pompeian paintings, it is true, we have an almost naked Aphrodite, as sometimes also on Etruscan mirrors: but this is quite exceptional. Thus it is no argument against the proposed interpretation of the dish from the Tyne that the goddesses are draped

There is no difficulty in recognizing on our lanx Heru in the dignified figure who is scatted and veiled as she often is on Pompeian paintings.8 And there is no objection to finding Aphrodite in the figure who holds the sceptre, and raises a hand to her face, this again being an attitude found at Pompeni. Athena makes her appearance, as usual, in full panopty. Thus

our dish fits into the series of representations of the Choice of Paris.

[&]quot; History of Forthumberland, p. 27.

⁴ Line 920.

[&]quot; Essentium of Helen, par. 46.

⁴ Mon. of Past iv. 18; cf. Principles of Orces. Att, p. 205.

Heling, Wandgewälde Campanions, No. 1284.

[&]quot; Third. Non. 1382, 1283, 1285.

^{* 10}pt. Non. 1283, 1286; Hermann, Deak maler der Maleren, Pl. CXIII.

At once, however, the difficulty will be raised that the scene of the Judgment is not Ida but Delphi, and Apollo takes the place of Paris as judge. Apollo is evidently at home in his chief shrine. The altur at his feet and the griffin indicate Delphi, and the fountain Castalia is symbolized by the vase to the left, where a rocky ground is clearly indicated. The presence of Artemis at Delphi would be natural enough. Artemis appears on vases in the scene of the purification of Orestes from his murder, also in one of the mural paintings of the House of the Vettii at Pompeii," where the scene of the slaying of the python serpent at Delphi is depicted; Apollo strikes his lyre in triumph, and Artemis stands leaning on a column. I am, however disposed to think that on the present occasion there is a special reason for the presence of Artemia, a reason to be set forth later.

It seems paradoxical to cite as a representation of the Judgment of Paris a scene where Paris does not appear, and Hermes, the invariable commeter of the goddesses, is also absent, and where Delphi and not Ida is set forth as the place of the event. But we are justified in doing this because we have proof, in several of the vases of Italian origin, that in one of the versions of the myth current in Hellenistic times Paris was

thus superseded by Apollo.

We have first a vase at Vienna of the fourth century a.c. " on which, though Paris is present the scene is shown to be Delphi by the presence of Apollo leaning against his laurel, and a tripod. Later, Paris disappears, as on an Apollian vase," where we have the three goddesses and Hermes, but no Paris, at Delphi, which is indicated by the sacred omphalos; and on either side of the emphalos we have figures of Zeus and Apollo. Apollo is seated as one at home, and Zeus is addressing him, evidently referring to him the point in dispute. A noteworthy detail is that here Aphrodite, who rides on a swan, holds a sceptre, and ruises her hand to her neck in a fashion not unlike that shown on our dish. On another Italian vase,33 where the scene is still Delphi, as is shown by the presence of the omphalos, Zens and not Apollo is scated on a throne as arbiter.

It may be said that these somewhat erratic variations of the Italian vase-painter scarcely furnish us with proof that the transference of the scene from Ida to Delphi had made its way into the accepted mythology. We may however, observe that there is some literary justification for taking Delphi as the scene, since in the beginning of the Cypria the whole series of events which began with the wedding of Peleus and Thetis and culminated in the taking of Ilium originated in a plan formed by Zeus and Themis, who was Apollo's predecessor at Dolphi. Moreover in the Hellemistic age it was natural to think of Apollo in his Delphic shrine as the great arbiter in all serious matters of dispute. I think therefore that we are justified in supposing that the Apulian Vase-paintings do represent an actual shifting of the tradition, though of

[&]quot; Monumenti dei Linger, viii. 19. XI. 3.

¹¹ Ibid. A. v. 2.

[&]quot; Twelepellatter, E at 1.

[&]quot; But A. x. L.

course in pactry Paris still figures as the judge. Some people may think that though the origin of the scene on the dish may be traced to representations of the judgment of Paris, the artist was unawars of that origin, and intended only to represent a group of deities. But I think that this view does not do him justice; his procedure is not so mechanical and imitative as this suggestion would imply.

There are two features of the scene which it is by no means easy to explain. One of these is the globe set up on a lofty pillar. On a coin of Samos, struck under Trajan Decius, the reverse represents Pythagoras seated, and in front of him a globe on a column. Here the reference is clearly to the astronomical studies attributed to Pythagoras. On our dish the reference may be to something set up at Delphi, one of the sacred dedications. Thus in one of the Pompean paintings to eased appears behind Hera raised on a high column. It has however, been suggested to me that the globe may belong to Hera who is seated close by it, and refer to ber rank as queen of the gods. Another feature hard to explain is the basis on which the hand of Apollo rests. Is it an alter? If so, it is of very unusual form. It could scarcely be the omphalos; so we must leave it unexplained.

The bird in the tree, which I have called an eagle, has been by some regarded as the raven of Apollo, but the beak seems conclusively that of an eagle. Eagle and raven alike would be suitable at Delphithe former is mentioned in the Ion of Euripides as haunting the spot.

which it still does

The beautiful border of alternate vine-lesses and bunches of grapes has parallels in other works of the time, such as the casket of Secundus and Projecta in the British Museum; ¹⁰ it appears also in the bands of ornaments on the mattress represented on the great Sarcophagus of Melfi, a work of the Antonine age, to which I will presently return.

It will strike anyone familiar with late classical art how pleasing are the types of the deities. They are survivals from a good period of art. The hair of Apollo, fastened in a knot at the back of the head, takes us back to the style of the third century n.c. The other figures are of not unusual character. For the separated field below, with its animals and plants, we may find parallels in vases of the South Italian class, where the field below is separated from the main subject by lines of dots, and in the field so separated plants grow.

The date of our lanx may be decided by various considerations. The readiest comparison is with the medallions of gold and bronze issued by the Roman Emperors, which form an excellent index of style. Especially if one compares with these medallions the way in which the eye is rendered one will judge our lanx to be not earlier than the end of the third century ATA, or than the reign of Diocletian. Another indication of date points to the

¹⁴ Cat. Greek Coins in Brit, Mrss.: Ionta, Pl XXXVII. 14.

¹⁴ Halbig, No. 1288.

[&]quot; Calalogue of Early Christian Antiquities,

p. 61, Pla. XIII - XVIII

¹⁴ Millin, Peintures des Unave, il. 37.

H V Greenii, I Melagioni Romani.

same period. This is the character of the columns of the shrine of Apollo, with spiral flutings and acanthes capitals. These closely resemble the columns on ivory diptychs of the third and fourth centuries, such as one in the Bibliotheca Quiriniana at Brescia, and one in the Treasury of the Cathedral at Monza. We may also compare the columns on surcophagi, such as the Cook Sarcophagus, published by Strzygowski, and the Sarcophagus at Melfi.

The curious way in which Athena stretches out two fingers probably results from the familiarity of the artist with the position of the fingers in the Christian act of benediction. Compare, for example, the Throne of

St Maximian at Ravenna."

Originality and vigour are no doubt wanting in our dish. The design obviously belongs to a time of decline in art. But the execution is very careful and precise. It clearly is the work, not of an inventive artist, but of a long-established and well-trained school. In its fabric we can see the results

of many generations of careful artificers.

The most remarkable feature of the dish is its combination of a distinctly late style with a strong Hellenistic tradition, indicating a continuity with the art of the latest centuries a.c. It may serve to give us a notion of the kind of plate in use in wealthy families in the last age of Paganism, and even to enlarge our view of the art of the great cities of the eastern Roman world in that age. In spite of the labours of Schreiber, Strzygowski and other writers, the art work of the great cities of Asia in the Roman Age is very imperfectly known to as: there are many because, one of which our dish does something towards filling.

I must, however, turn to another class of monuments which have something in common with our dish, and in particular have a similar close dependence upon the later works of Greek art, and are independent of Roman influence. I refer to the group of Sarcophagi of the age of the Severi, of which perhaps the most remarkable is that of Sidamara. T. Reinach, Strzygowski, Mendel and other writers have dealt with this class of monuments very thoroughly. The general opinion regards them as made in Asia Minor; and this is probably right, though examples have been found elsewhere, in Italy, Greece proper and Bithynia. Strzygowski thinks, however, that they started from Antioch, a view which it is hard either to prove or to disprove, in view of our very slight knowledge of the art of Antioch. In any case, their inspiration, if inspiration it can be called, is purely Greek. The types of the deities on them are largely taken from the school of Praxiteles.

Taking the Sidamara Sarcophagus as the best type, and its front to use the most important side, we find six figures. In the midst the deceased sits

¹⁰ Clori, Thee, Drpt. lill Suppl. Ph XVI.

^{= 1552} ii. PL VIII.

[&]quot; J.H. & 1907, Pla V - XX.

[#] Antike Deskmiller, iti. XXII.-IV.

⁼ J.H.S. 1907, p. 116.

Monumente Pint, ix. p. 189, Ph. XVII.— XIX.

[&]quot; Orient ofer Rom and J.H.S. 1907.

^{*} Mon. Piot, iz. p. 199, Pl. XVII.

holding a scroll. The type might be taken from an Attic Sepulchral Relief of the fourth century. Before him stands his wife, a figure from the repertory of Praxiteles, and behind him an Artemis with drapery girt up, a pleasing Hellouistic type. At the two ends are the Dioscuri, Castor and Pollux, each holding a horse. We do not know the reason for selecting these deities rather than others; but the artistic effect of the whole is very pleasing. The besetting sin of later Greek art was to prefer style to meaning, just as it was the besetting sin of later Greek literature to tend to a rhetorical extreme, to prefer words to thought. Similar in character is the Sarcophagus of Melfi. There on the front are deities who cannot be all with certainty recognized, but who seem to be (from left to right) Apollo Citharcedus, Ares, Gora, Plutus, and Hades. For the choice of the last three a connection with the Mysteries at Eleusis may account; but here again style is more than subject.

It seems that there is this difference between the Sarcophagi and our dish, that the former go back for their art-types to a somewhat earlier

period : but the general character is not dissimilar.

Another class of monuments which might well be compared with our lank is the very abundant bronze coins issued in the cities of Asia Minor under the Severan Emperors and their successors. This is an almost unexplored field. Apart from the volumes of the British Museum Catalogue of Greek Coins which deal with Asia Minor, it would be difficult to find adequate representations of any large series of these coins. But cities like Smyrna and Tarsus offer us on their local issues struck in the third century an almost endless series of types of deities and mythologic scenes. The art of these coins is usually very poor, and their execution hasty, but at least they prove that Greek art of a distinctly Hellenic type remained in favour in the great cities of Asia until the definite triumph of Christianity.

This long survival of a purely Hellenistic art is a fact worthy of consideration. It shows the superficiality of the common opinion that art of the Roman Age is Roman art. There is a period, beginning with the Ara Pacis of Augustus, and ending with the Column of Antoninus when, at least in Italy, there was a truly Roman art. It is Roman in the same sense in which the Aeneid is Roman; that is, though the artistic forms are Greek, yet they are used for Roman purposes, and so transformed. In most Roman monuments of the age one can see how Greek and Roman elements stand side by nide without intermingling. For example in the reliefs of the arch of Trajan at Beneventum we have in juxtaposition groups of Trajan and his officers, and purely Hellenistic figures such as river-gods, and even the deities of Olympus. In the noblest and most national monument which Rome ever produced, the Column of Trajan, the Roman element vastly preponderates. In every scene Trajan and his officers are the central figures; and it is the deeds of Roman soldiers which inspire the sculptor. Only here and there such ideal figures as the River Danube, Night, the Rain-God, give a touch

of poetry to the scene. The sculptors were no doubt Greeks; but they are carried away by the serrousness and majesty of the theme. it is only

the hand which is Greek; the purpose is Roman.

But when we come to the Column of Antoninus this historic Graeco-Roman art is in a state of complete decay. All its vigour and life are gone. Between this column and that of Trajan lies the Hellenic drift of the age of Hadrian. Henceforth until the time of Constantine there is in the Roman elements of the historic trophics and monuments nothing but degeneracy. The Greek elements in those monuments stand the wear of time better. There is still in the age of the Antonines, and even of the family of Severus much in the line of Greek art which is formal, uninventive, rather empty, yet which has much elegance. It is like the beauty of an elderly woman of whom we say that she must at one time have been very handsome.

In the Roman Age Roman art never really amalgamates with Greek. They flow on together like the Rhone and the Saone in one bed, but not intermixed. And it is the Roman element which first dies out, or survives in more wooden lifelessness. The inherent vitality of Greek art, as art, carries

it on for a long time.

In the cities of Asia Hellenistic art went on under the Roman Empire. almost untouched by Roman influence, until it was strangled by the rise of Christianity. And even then something of its graciousness and charm went on into Christian art, as we may see especially in that best continuous record of art changes from the ancient to the modern world which is furnished us by the ivery tablets of which there are such admirable series in the South

Kensington and Ashmolean Museums. And when at the time of the Renaissance art revived or awake from slumber it was the sculpture of the age of the Antonines from which Apart from the Christian element, it may be it took its departure, said, almost with accuracy, that the art of the fifteenth century in Italy continues the line which had been stretched from the early art of Ionia to the times of Hadrian. To an age which was in strong revolt against the narrownesses and restrictions of Christianity, the monuments of the age of the Autonines which were still to be seen in Rome and Italy seemed a revelation of a wider and a more beautiful world.

These facts will be illustrated fully if we compare our dish with the splendid examples of Roman plate of the early Imperial age found at Bosen Reale and Hildesheim. On the cups of Bosco Reals we find depicted the glory of Augustus, the triumph of Tiberius, Boman sacrifices and the like, while the presence of the deffeed Ronn, of Mars, of the Centus of the people, redeem the scenes from the commonplace. We are in an absolutely different region in our dish from the Tyne. There is here no history, but only poetry, and charming art-forms which have lost much of their original significance.

In the case of other silver vessels of the third and fourth centuries, such as the cups and dishes in the British Museum from France, the silver

find at Carthage," and the dish from Bayeux already mentioned, the seemes represented on them are taken, not from mythology, but from pastoral life. Especially shepherds and their sheep abound. In these latter scenes one may read with some probability a Christian meaning, since the Good Shepherd is one of the earliest subjects of Christian art. Pastoral scenes, and events of country life, figure largely on late Pagan and early Christian Sarcophagi. And in the wall-paintings of the Catacombs, some of the earliest scenes are from the vintage and the harvest and sheep-tending, with one or two figures of symbolic Christian meaning, Orpheus or Psyche or the Good Shepherd, modestly introduced. These silver vessels and wallpaintings alike seem to belong to the Roman sphere of influence.

The silver casket in the British Museum which bears the names of Secundus and Projecta and was found on the Esquiline at Rome 27 differs from these vessels as to subjects, some of which are scenes from life, such as the bringing home of the bride; but others are taken from the Hellenistic mythological repertory, Tritons and Nymphs riding on seamonsters, little figures of Eros; even Aphrodite in a great sea-shell. The casket being distinctly Christian, as is proved by the inscription on it, Vivatis in Christo, this insertion of a heathen goldess is very curious. Winged genii and sea-monsters are only poetry, but Aphrodite

is a powerful figure of heathen cuit.

More undiluted is the Paganism of the Corbridge dish. It owes scarcely anything to Rome or to Christianity: but is a purely Hellenistic work out of due time.

Late Hellenistic art is of course conventional. M. Théodore Reinach characterizes it truly, if somewhat severely, when he writes: 'Cet art confus et agité s'épuise sans conviction, mais non sans ingéniosité, à combiner et à varier de vieilles formules, dont le seus lui échappe de plus en plus.'22 Our generation, in particular, is hard upon this kind of art : we prefer attempts, however rude, which shew promise of a future, to works which only stand in the light of the setting sun. But, after all, art has a continuous history, and conservative schools have a place in that history as well as innovating schools. Early Christian art learned a great dual from the Greek art of the Decadence. But for it, Christian sculpture might have lost all sense of form, and such delightful creations as the angels of Amiens would have been wanting to our Cathedrals.

If I venture to suggest an actual place of production for our dish. I go beyond the conclusive evidence. It must doubtless have been brought to Britain from some great Hellenistic city, where Roman influence was scarcely felt. Three names of such cities especially occur to us, Alexandria, Antioch, and Ephesus. Alexandria seems to be excluded. We are acquainted with Aegypto-Greek art from the great museums of Egypt, and the works of Schreiber and other writers: it has

> Those are catalogued and engraved in the Best. Man. Catalogue of silver plate.

[&]quot; Catalogue of Early Christian Antiquities " Monuments Plat, in p. 199.

in the British Mosesson, p. 61, Pls. XIII -XVIII.

a mixed character, and is not pure Hellenistic; the old art and religion of Egypt count for something with it. As to Antioch, we are not well enough acquainted with the characteristics of its art in the late period to say much about it. But the coinage of Antioch has a distinctly Roman character, very different from that of the cities of Ionia and Phrygia.

Asia Minor certainly has a better claim to our dish.

Certain indications, not conclusive, but not to be despised, seem to point to Ephesus. The presence of Artemis in the scene of judgment I believe to be without example, and naturally so; for a confusion might easily arise between her and the three goddesses. Moreover, on our dish, an altar appears before her; and her dog and stag are figured beneath; some emphasis is laid upon her. And she is more than superfluous, she seems even intrusive. If she were away, and the two goddesses who turn towards her were looking the other way, the scene would be more intelligible. Now Artemis had no particular shrine at Delphi. But if the dish were made at Ephesus, what more natural than to insert Artemis in the scene, and to lay stress on her? It was especially as a huntress that the Greeks at Ephesus worshipped Artemis. On bronze come struck at Ephesus as late as the time of Valerian and Salonina (253-260 A.D.) Artemis occurs frequently as a huntress, with bow, dog, and stag; and notably a tree, to show how the goddess hannts woods is placed in the background." We know, from the well-known incidents recorded in the Acts of the Apostles, that there existed at Ephesus in the first century A.D. a powerful guild of workers in silver, who made for sale copies of the shrine of the goddess Artemis. It is quite clear that the members of this guild would also make allver plate for the wealthy: and since the worship of the goddess was flourishing at Ephesus until the complete downfall of Paganism, even after the Gothic rayages of a.p. 260, this guild would persist. I am therefore disposed, tentatively, to assign our dish to Ephesus. Whether this be the case or not, it is of great interest for the history of the latest period of Greek Art.

P. GARDNER.

[&]quot; byst Mus. Clat. Ionia, pp. 104-107.

A BYZANTINE TREATISE ON TAXATION.

Ĩ

The little treatise which follows is in a manuscript of the Marciana at Venice—yr, fundo antico, 173 (late twelfth century). It throws considerable light on the system of taxation in the later Empire, and explains a good many technical terms which one meets with in the documents. So far as I know, it has never been published. Even if it has, it deserves to be published again. I hope in a future number to say something of its contents. I have numbered the paragraphs for convenience of reference. The treatise begins on £ 276 v. of the manuscript. I reproduce the spelling and accentuation of the manuscript. In some cases I may have gone wrong in enlarging the abbreviations, which are numerous.

W. ASHBURNER.

δισπερ δε ρίξα ή άπο των όλων ψηφίων ημαδενομένη ποσότης καλείται, ούτως πάλιν ύποταγή χωρίου ἀνομάζεται πάσα ή ἀπο της γης σύστασις ή τοις όλοις τούτως κεφαλαίοις ἀνήκουσα ή μάλλον είπεϊν ή κατακερματίζομένη είς τὰ ταύτων άπάντων ψηφία καὶ μηδέν έξωθεν των όλων τοῦ χωρίου δικαίων παραλιμπάνουσα.

(2) ἐπιβολή δὲ καὶ τῆς ρίζης ἰκάνωσις γίνεσθαι λέγεται ὅταν, τῆς ὅλης τοῦ χωρίου ἀναμετρηθείσης ὑποταγῆς, ὁ ἀκριβῆς διαγνωσθῆ

⁽¹⁾ βίζα χωρίαν εστίν ή όλη ποσότης των έν τη συγγραφή ξεάστον χωριον κειμένων ψηφίων συμπεριάγονται γὰρ τῷ λόγω τῆς βίζης τελούμενα, συμπάθειαι, ἀποκεκινημένα καὶ ὁλύπτωτα, ὁρθωσεις, κλάσματα, λιβελλικά, λογίσιμα παντοία, σολέμνια, τόποι ἀποσπανθέντες οὐ μέντοι γε ίδιοστατηθέντες εἶτε ίδιοπεριορισθέντες ἀλλ' ἐν μέσω τῆς ὑφῆς τῶν ὁλων διορίων κείμενοι, ἀγροὶ ὁμοίως οὐκ ἰδιόστατοι ἀλλ' ἐν μέσω κείμενοι, προιστεια συναγόμενα, στασονόμα (1), καὶ ἀπλως πάντα όποσα μέρη είναι τοῦ προκειμένου χωρίου διαγινώσκονται ή γαρ ἐκ τουτων ἀπάντων ὁμὰς βίζα καλείται διὰ τὸ συνέχειν ταῦτα πάντα καὶ εἰς μίαν ὁλότητα συνιστάν. διὰ γὰρ τοῦτο καὶ οἱ ἀκριβεῖς νοτάριοι ταῦτα πάντα συμψηφίσαντες λέγουσιν ἄμου ἡ ὁλη ρίζα ὡς ἐν τύπω εἰπεῖν νομίσματα ρ· ἐξ αὐτῶν τελούμενα τόσαν χωρίω εὐρίσκεται.

μοδισμός έκ των κατατομών και άντιπαρατεθή το του μοδισμού ποσόν το της ρίζης ποσφ και καταψηφισθή και όπερ αναλογούν έκαστω ευρεθή τργουν τεθείσθω δε καθ' υπόθεστο χωρίαν τι υπάρχου δε όλης αύτου της υποταγής μοδίων χιλίων, έστω δε και ή ρίζα ή άπο του όλων τούτων ώς δεδηλωται κεφαλαίων συναγομένη νομίσματα ρ. άναλογεί ούν έκαστο νομίσματι γη μόδιοι δέκα. λέγει γάρ ο ψηφίζων δέκακις έκατον α΄. άπως δε ό άκριβής μοδισμός και ή άλήθεια της επιβολής και ή άνεπισφαλής ικάνωσες άπο τών κατατομών μάλλου ευρίσκεται, έν τή του μέτρου διδασκαλία прпканет.

κτήσες και το χωρίου είς μέυ το άλλα πάντα τυγχάνουσε το αύτο κατό τούτο δε άπο του πολλού χρόνου διέφερου, ότι του μέν χωρίου ή καθέδρα μία και των χωριτών αι οίκησεις έν τω αυτώ και ελλήλαις γειτυνικώς ί [1. 277 г.] πλησίαζου, της μέντοι γε κτήσεως αι καθέδραι πολλαί και τών οίκητόρων αι ολεήσεις διεσπαρμέναι και άλληλων πολύ άποδιηρημέναι Ιτύγχανον, δπου δηλαδή το εκάστου κτησείδιον έκειτο διο και χωροοικοδεσπόται ή άπο χωροοικοδεσποτών δοκούσεν είναι οι έν τοίς κτήσεσε και ούχ άπλώς

χωμίται

(3) άλλο ύπάρχει άγρος και άλλο άγρίδιου άγρος γάρ έστι πός κεκαλλωπισμένος χώρος άγρίδιου δε μεγάλου χωρίου αποδιαίρεσις μερική. μερικόν δε και τον καλλωπισμόν έχουσα, διο και άγρίδιον δια την εὐτέλειαν όνομάζεται ώσπερ πόλις καὶ πολείδιον. έγξνοντο δὲ τὰ άγρίδια εἶτε ἀπό τοῦ μή άναπανεσθαι τινάς των χωριτών έν τη καθέδρα του χωρίου, είτε άπο του μη κεκτήσθαι τοις άλλοις επίσης τα λεγύμενα ένθύρια περιβόλα και διά τούτο μεταστήσαντας τὰς οἰκήσεις αὐτῶν ἐν μέρει τοῦ δλου χωρίου και καλλιεργήσαντας και έγκαταικήσαντας. ίσως γαρ πατέρες τινών έν πολλοίς παισί τελευτήσαυτες, τοις μεν αυτών τὰ ἐσώθυρο à είχου ἐν τῷ χωρίφ κατέλιπον, τοις δε τὰ εξώθυρα. οι ούν εν τοις έξω χωρίους την γονίκην αὐτών κληρονομίαν άπολαβόντες, μη δυνάμενοι πόρρου ταύτης καθήσθαι και ζήν. μετέστησαν έκει, και τάς οικήσεις αύτων και τον τόπον Βελτιωσάμενοι είς άγριδιον τούτο μεταπεποιήκασιν. άλλοι δέ πάλιο ή βοσκήμασε καί δούλοις πληθυνθέντες, ή παρά γειτάνων στενοχωρούμενοι πονηρών, και μή δυνάμενοι έν τη του χωρίου καθέδρα αίκειν, μετέστησαν έν μέρει τικί της όλης ύποτωγής του χωρίου, και όμοίως βελτιωσώμενοι το αύτο πεποιήκαστε. και πολλάς αν εύρης άφορμας έρευνου όθεν συνέστησαν τα άγρίδια.

(4) τα μεντοι γε προάστεια τον αύτον μεν έχουσε τούτοις της γενέσεως τρόπου. διαφέρουσι δε έν τῷ παρά τοῦς προαστείοις μή τους δεσπότας αὐτούς την κατοίκησην έχειν άλλα τινάς των όπ' αύτους δούλους ή μαθίωνς και λοίπους. άλλα ταυτα μεν περί των άγριδίων και προαστείων τών συμ-

περιοριζομένων τη όλη του χωρίου εποταγή.

(5) τὰ γὰρ Ιδιοστατα λεγόμενα άγριδια και προάστεια τούτον τὰν τρόπου γεγάνισι. της χώρας εξαλιφείσης από τινος ίσως έθνων έπεδρομης ή τενός [1. 277 ι.] άλλης θεομηνίας, και τον περιλευφθέντων προσχώρουν κινδυνευώντων και αύτου μεταναστεύσαι διά το καθέλκεσθαι και ύπερ του έξαλιφέντων, έξηλθεν έπόπτης άπο του βασιλέως σταλείς, και άνερευνήσας συνεπάθησε το τέλος των είτε έξ ολοκλήρου είτε μερικώς έξαλιφέντων στίχων. εί μεν οία εποστρέψουστε οι κληρανόμοι ούτοι έντος της τριακοντακτίας, ή συμπάθεια αύθις δρθούται εί δὲ μὴ ὑποστρέψουσι καὶ ἡ τριακονταέτια παρέλθη, στέλλεται άλλος αύθα ἐπόπτης, καὶ ἀπολύκι είς ελάσματος προσγράφὴν τὴν προτέραν ἐκείνην συμπάθειαν, τούτων δὲ οὐτως γινομένων, εἰ πολλάκις ὁ κλασματίσας ἐπόπτης ἡ μετ' αἰπὸν ἔτερός τις ἐν ιδιάζοντι μέρει ἀποδιαιρήσει τὴν ἀνήκουσαν γῆν τοῖς κεκλασματισμένοις τούτοις στίχοις καὶ περιορίσει καὶ τῷ σεκρετικῷ παρεκτῷ (ί) προσγράψεται ιδίως δὲ ποιήσει καὶ καταστρώσει εαὶ τὸν περιορισμὸν τῆς καταλειφθείσης ἐτέρας ὑποταγής τοῦ χωρίου καὶ μετὰ τοῦτο ἡ κεκλασματισμένη αὐτη ἀποδιαίρεσις ἡ πραθἢ ἡ δωρηθἢ ἡ ἐκληπτορικῷ δικαίῳ ἡ πακτωτικῷ ἐκδοθἢ ἡ σεκρέτῳ τινὶ ἀνατεθἢ καὶ οὐτως ἐνοικισθὴ καὶ βελτιωθἢ, τηνικαῦτα διὰ το ἐν ἔτέρω ὑποπεσείν περιορισμῷ καὶ οὐκ ἐν τῷ περιορισμῷ τοῦ ὅλου χωρίου συνυπάγεσθαι, ἰδιόστατον λέγεται ἀγρίδιον ἡ προαστείον. ἰδιόσταταν γάρ ἐστι τὸ δι' ἐπόπτου κλασματισθὲν καὶ δι' ἐπόπτου ἐκ τῆς ὑποταγῆς τοῦ χωρίου διαιρεθὲν καὶ περιορισθὲν καὶ ἐι ἰδιάζοντι μέρει ἀφαρισθέν, ὧστε μήτε εἰς κατατομὰς είναι μήτε ἀνακοινώσεις ἔγειν μετὰ τῆς λοιπῆς ὑποταγῆς τοῦ χωρίου.

έστε δε δπου τών χωρίων όπο παλαιού ώκισμένων όντων και κηναευομένων ή μετά τούτο ένοικιζομένων και δημοσίοις κανόσιν υποβαλλομένων ή επορθουμένων είν δουν έδει έκάστη έπιτεθήναι τέλος, των μέν χωρίων τούτων γεγάνασε περιορισμοί, άπελειφθη δέ τις τόπος μέσον τών χωρίων αύτου κείμενος και παρά μηδενός επιζητούμενος, είτε ώς περιττός είτε ώς τηνικαύτα μη χρησιμεύων, οι ούδε περιωρίσθη τώ τότε ούδε προσεγράφη τώ κώδικε μετά δε χρόνους τινάς, έπειδη ή του κύκλου φορά πολλώκες οίδε μεταφοράς απεργάζεσθαι, ευρέθη το τοιούτον άδεσποτον τόπιον ύπό τανος τών σταλέντων επόπτων εύχρηστου Ισως δε και παρά τινων νεμόμενον ή ζητηθέν νέμεσθαι έπὶ τῷ συμφωνουμένο δημοσίο κανόνι. τοίνον καὶ παρὰ τού τοιούτου επόπτου έδημοσιεύθη το παρόν τόπιος και προσεγραφη έν ίδιάζουτι στίχφ μετά την του χωρίου τούτου όμάδα, είτε και περιορισθέν είτε και μή περιορισθέν. λέγεται γάρ και τούτο έπίσης τοις άλλοις ιδιοστατου και το επιτεθέν αύτους δημόσιος προσθηκή. πλής κατά τουτο διαφέρου έκείνων ότι έκείνα μέν την αυτήν επιβολήν έχουσιν άφ' ών αποδιηρέθησαν χωρίων κατά την των συμπεπαθημένων δηλαδή και κεκλασματισμένων στίχων ανήκουσαν έπιβολήν, έπειδή και από χωρίου είσι ταύτα δε ούτε από χωρίου είσιν ούτε την αυτήν επιβολήν άναγκάζονται ή άναγκάζουσι των τών χωρίων έχειν, άλλ' ίδιαν και δετην λαβείν έτυχον άπό της αύτών κηνσεύσεων είτε πλείονα [1. 278 г.] είτε ελάσσονα.

(6) Ιδιοστάτων τάξεν ἐπέχουσε καὶ τὰ προκατεσπασμένα λογίσεμα, ταῦτα γὰρ τὰ λεγόμενα προκατεσπασμένα λογίσεμα ἐγίνοντο ἐν τοῖς ἀνέκαθεν χρόνοις παρὰ τῶν πόλυ προτετελευτηκιστων βασελέων καὶ ἔχρε τῆς βασελείας, ὡς λέγεται, τοῦ φελοσόφου κυροῦ λέοντος, ἐγίνοντο ὁὲ οὐτως, προσέταττεν οὐτος ἡ οὐτος ὁ βασελεύς τοὺς ὅημοσίους κανώνας τῶν ὑπαρχώντων κτημάτων τῷδε ἡ τῷδε τῷ ξενῶνε ἡ τῷ γηρωκομίῳ ἡ τῷ ἐκκλησία ἡ ἐτέρος τενὶ μὴ ἐπεζητεῖσθαι ἀλλ' ὡς δωρεὰν βασελεκήν αἰδίως καταλεμπάνεσθαι καὶ λογίζεσθαι. ἐψ΄ ῷ και ἵνα μὴ ὑπερ τούτων ὁχλῶνται είτε οἱ τὴν λογίσεμων ταύτην ὁωρεὰν ἔχοντες είτε οἱ τὴν διοίκησιν ἀπαιτοῦντες και λογαριαζόμενοι, ἐρρεζοτομοῦντο παντελώς καὶ τῶν καταστίχων τῶν διαμίων

εξειβάλλουτο οι τών λογισίμων ταύτων στίχοι, και ούκετι συνεχωρούντο συγγεγράφθαι τοῖς άλλοις και συμψηφίζεσθαι και συνομαδεύεσθαι διά και προκατεσπασμένα λογίσιμα ταῦτα ἐκλήθησαν, ὡς ἔχοστα δὲ και ταῦτα τῆν ἀνήκαισαν τοῦτοις γῆν, μηκέτι δὲ εὐρισκόμενα ἐν τῆ ὑφῆ τῶν καιδικών ὡς συνεισαγόμενα τῆ λοίπη ρίζη τοῦ δλου χωρίου. Ιδιοστάτων και ταῦτα τάξιν ἐπέχουσιν ὅμως εἰ και περιορισμόν ίδιον ἔφθασαν εἰληφέναι, πάντως εἰσίν ἰδιόστατα, εἰ δ΄ οὐν ὁ τῆν ἐπιβολήν ποιῆσαι βουλομένος συνεισάγει ταῦτα καὶ οῦτως την ἰκανωσιν ἀπεργάζεται, εὐρίσκονται δὲ ταῦτα ὁμαδικώς μὲν ἐν τῷ λογαριασμῷ τῶν τοῦ οἰκιστίκου χαρτίων κείμενα· ἔλογαρίασε γὰρ τὰς διοικήσεις ὁ ὅηλωθείς ἀποιχόμενος βασιλεύς κῦρος λέων, και δεξάμενος ἀπο τῶν διοικήσεων πάντων τῶν θεματών τὰ εὐρισκόμενα ἐν ἐκάστω τούτου προκατεσπασμένα λογίσιμα, προσεγράψατο μὲν ταῦτα ἐν τοῦς τοῦ οἰειστίκου χαρτίως ὁμαδικῶς ὡς δεδήλωται, κατὰ στίχον δὲ τὰ μὲν ἐν τοῖς ἔξω κώδιξε κεῖνται, τὰ δὲ ἐν τοῖς προσούσι χρυσοβούλλοις τοῖς εἰαγέσιν οἴκοις· περί μὲν οῦν τῶν προκατεσπασμένων λογισίμων ταῦτα.

(7) έκτὸς δὲ τούτων εἰαὶ τὰ διαπλάγια (1) λογίσιμα ἤτοι τὰ ἐκπεφωνημένα καὶ τὰ ἀνεκφώνητα, ἐν οἰς οὐ πρόσκειται τὸ τοῦ σολεμνίου ὅνομα, καὶ ἔτι πρὸς τούτοις τὰ λογίσιμα σολέμνια, τὰ αὐτουργὰ σολέμνια, τὰ ἀντισολεμνίων, τὰ σταθέντα λογίσιμα, καὶ τὰ χειρόσδοτα λεγόμενα σολέμνια: ὧν

αι είδησεις έχουσιν ούτως.

λογίσιμον λέγομεν ἀπλώς ἐκφωνούμενον ὅταν το τελούμενον παρά τινος δημόσιος ἐκ φιλοτιμίας βασιλικής λογισθή διὰ κινναβάρεως ήτοι προσγραφήν δέξηται διὰ κινναβάρεως περίεχουσαν τὸ " ἐλογίσθη προσώπω τοῦ δείνα ἐπάνω τοῦ οἰκείου στίχου ἐν τή παραθέσει τῶν τοῦ γενικοῦ χαρτίων διά τινος τῶν βασιλικῶν ἀνθρώπων κατὰ βασιλικήν πρόσταξιν."

(8) ἀπλώς δε λογίσιμου ἐκφωνούμενου ὅπερ ὁμοίως ἐλογίσθη προσώπω τοῦ δείνα, οὐ πρώσκειται ἔἐ τὰ πρόσωπου δι' οῦ ἐλογίσθη ἄλλά καὶ διὰ

μέλανυς έχει την προσγραφήν.

(9) λογίσιμου δὲ ἐστὶ σολέμνιος ὅταν ὁ Βασιλεὺς ἀντὶ τοῦ ὁιδομένου σολεμείου πρὸς τόνδε ἡ τόνδε τὸν εὐαγῆ οἰκον παρακληθεὶς ὑπό τῶν προεατώτων ἡ τῶν λειτουργῶν [f. 278 n.] ἡ τῶν μοναζόντων ἐν τῷ εὐαγεῖ οἶκψ προστάξη, καὶ λογισθῆ ἡ αὐτὴ ποσότης ἀπὸ δημοσίου κανόνος χωρίων τινῶν μὴ ὑποκειμένων τῷ αὐτῷ εὐαγεῖ οἶκφ, ῷστε τὰ λογισθέντα νομίσματα παρέχεσθαι παρά τῶν χωριτών ἀντὶ τοῦ διοικητοῦ πρὸς αὐτὸν τὸν εὐαγῆ οἶκον χάριν τοῦ προτέρου σολεμείου.

όταν δε άντι του τοιούτου σολεμείου ού λογισθώσι χωριτικά και ξένα δημόσια, άλλα αυτά τα των οίκειων κτημάτων δημόσια, ώστε όφ' ών ώφειλεν ό εύαγης οίκος λαμβάνειν σολεμείων ίνα καταλογίζηται τὰ τελέσματα τῶν οίκειων κτημάτων, τηνικαυτα τὰ τοιαύτα λογίσιμα λέγουται αυτουργά

regionia.

(10) ἐπειδὰν δὲ μήθ οἶτως μήτ' ἐκείνως ή περὶ τῶν τοιοίτων σολεμνίων οἰκονομία γένηται, ἀλλ' ὁ διοικητής προσταχθή, και ἀπό τοῦ παντός ἀκρυστίχου οῦ ἀπαιτεῖ τὸ ποσόν τοῦ σολεμνίων δίδωσι, και οἱ λογαριασταὶ δέχυνται τοῦτο, καλεῖται αὐτό παρεχόμενον σολέμνιον, και οῦδὲν ὡφελοῦσι τὰ τοιαῦτα ὡς προς ἰκανωσιν γῆς τῷ λαβάντι, καὶ περὶ μέν τούτων οῦτως.

(11) τα μέντοι γε σταθέντα λογίσιμα οι μέν ήρμηνευσαν είναι τὰ άργησαντα και μηκέτι λογίσιμα είναι καταλειφθέντα, οι δὲ τὰ παγμωθέντα και κυρωθέντα. Εδοξε δὲ ἀκριβεστέρα είναι ἡ δευτέρο ἐρμηνεια και γάρ φασιν οι ἔξετάσαντες, εἰ ἀπηνθησαν τοῦ είναι λογίσιμα, ἔδει ταῦτα ἀπολυθήναι μετὰ τῶν τελουμένων ἐπεὶ δ΄ οὐχ σῦτως ἔχει, ἀλλ' ἔτι καὶ νῦν μετὰ τῶν λογισίμων κεῖνται, δήλον ἀν εἰη σταθέντα λογίσιμα λέγεσθαι τὰ ἀπὸ χρόνου πάνυ παλαίου εἰληφότα τὴν κύρωσιν. καὶ ἡ μέν τῶν σταθέντων λογισίμων διάγνωσις οῦτως εἰχε, βασιλική δὲ τις πρόσταξις

έξουσιαστικώς έκελευσε μηδ' όλως ταύτα δέχεσθαι.

(12) ή συμπάθεια και το κλάσμα ή ἐν όλφ τῷ χωρίω γίνεται καὶ άγριδίω και προαστείω και τόπω ή εν όλω τώ στίχω ή από μέρους του στίχου. άλλ' όταν μεν έν όλφ τφ χωρίφ γένηται ή άγριδίφ ή προαστείφ ή τόπο ή εν όλο το στίχο και ούκετι εν αυτό καταλιμπάνηται τελούμενου έτερου, άλλα πάντες οι στίχοι συμπεπαθημένοι υπαρχωσι, τηνικαίτα τούτο καλείται άλοσυμπάθητον, μετά δε την τριακονταετίαν, ει μήπω έντος ταύτης δρθωσις γέηται, γίνεται ολύπτωτον. όταν δε έν όλω το στίχο, εί μεν ο τελεστής του στίχου ούκ έτελει και έτερου στίχου άλλα μόνου του παρουτα, και συμπάθεια έγειετο εν άλω τω στίχω τούτω καλείται και ο στίχος ούτος όμωως όλοσυμπάθητος. έδυ δε διάφορου έτέλει, και οί μεν έκ τούτων πάνυ συνεπαθήθησαν, οί δὲ συνεχωρηθήσαν αδθις τελείσθαι, δοκούσιν οί τοιούτοι στίχοι μάλλον έσικέναι τοις αποκεκινημένοις ώς πρός την όλοτητα τής τελουμένης παρά του τελούντος αύτούς, κάν ου λέγωνται τουτο και όλοσυμπαθητοί είναι ευρίσκωνται. και γάρ ώσπερ έν τοίς άποκεκινημένοις οι κληρονομοι το μεν τελεί το δε συμπαθείται, ούτως και ένταθθα ο κληρονομος τους μέν των στιχων συνεπαθήθη μη τελείν, τους δε τελεί. [f. 279 r.] άποκεκινημένοι γάρ είσιν ών τα μεν τελούνται τα δε συμπεπαθημένα τυγχώνουσεν ήγουν ώς έν τύπω είπειν, άπο νομισμάτων 7, τελούμενα μόνα νομίσματα Β, ελάσμα και συμπάθεια νομίσματα α. ολοσυμπάθητον δε ών προς τω δεσπότη και ο κληρόνομος άφανής έστι γίνεται δε το μέν όλό. πτωταν καλ όλοσυμπάθητον κλάσμα, καθώς άνωτέρω είρηκαμεν, όπηνίκα τών κληρουόμων υποχωρησάντων ή πάντων ή τινών άπο τινος ίσως έθνων έπιδρομής είτε άλλης θεομηνίας και τών έκ γειτόνων καθελκομένων άλληλεγγίως έπι τους έκείνων τελέσμασι, και πρός μετανάστασιν και αυτών άφορωντων, ο αποσταλείς παρά του βασιλέως έποπτης, ίνα μη και ούτοι έξαλιφώσι, συμπαθήση τα τών έξαλιφέντων δημόσια: και τριακονταετίας παρέλθούσης, και των είρημένων εληρονόμων δι όλης αυτής της τριακονταετίας μη άναφανέντων, η συμπάθεια δι' έτέρου έπόπτου είς κλάσμα απολυθή ώστε μηκέτι την του κληρονύμου οίεσθοι προσδοκάν έπανακαμψιν.

(13) ή δε των μερικώς συμπαθηθέντων στίχων συμπάθεια ήτοι των άποκεκινημένων γίνεται κατά μεγάλην ώπορίαν των τελεστών ή της χωράς δι ήν τα τελέσματα δίδανται καὶ κατά παράκλησιν των αὐτών τελεστών καὶ βισιλικήν φιλανθρώπιαν καὶ τοῦ ἐπόπτον άληθή ἔρευναν καὶ δικιέαν άνακούφισιν. ὑνα γάρ καὶ οὖτοι μὴ παντίλως ἀπορήσαντες διὰ τὴν εἰρημένην ὑπόριαν μεταναστεύσωσι, συμπαθούνται παρά τοῦ ἐπόπτον καθ όσον ἐνδέχεται. διαφέρουσε μέν οὖν κατά τοῦτο τὰ ὁλόπτωτα καὶ τὰ ἀποκεκινημένα, διαφέρουσε δὲ καὶ ἐν τῷ ἀφορῶν τὸ μὲν βάρος τῶν ὁλοπτώτων στίχων πρός την όμάδα του χωρίου και το βάρος των όλοπτωτων χωρίων και άγριδίων και προαστείων και τόπων πρός τους γειτανούντας, το δὲ τῶν ἀπακεκινημένων στίχων πρός αὐτούς τους τῶν στίχων τελεστάς.

(14) οί κουφισμοί λέγονταί τε και γίνονται όταν μεταναστεύσωση οί εληρόνομοι, ου μην αδηλόν έστιν ότι σώζονται πλησίον που δυτές και όπου προσκάθηνται: διο και της μεταναστεύσεως αύτων ούτως έχούσης και προσδοκίας φαυκράς τυγχαυούσης ώς έκ παυτός δι όλεγου υποστρέφειυ όφειλουσιν. ο έποπτης, ίνα μή εξαλιφώσε και οι καταλειφθέντες του χωρίου έποικοι άλληλέγγια άπαιτούμενοι, ού συμπαθεί τους στίχους ούδι ελασματίζει άλλα ποιεί κουφισμόν έπε καιρόν τινά είς τους στίχους ούς ετέλουν οι μεταναστεύσαντες. τουτέστιν άχρις Αν πρός τας οίκείους στάσεις ύποστρέψωσι. τηνικαίτα γάρ τούτων υποστρεφόντων επορθούνται οἱ στίχοι ή παρ' αυτού του ἐπόπτον του κουφίσαντος ή παρ' έτέρου τινός του μετά χρόνους τινάς του δρθοποιούντος: παρ' οὐ καὶ προσγραφή γινέται ἐν τοῖς πρακτικοῖς διὰ τῶν ἐπανελθόντων στίχων άπο του κουφισμού, ούτε γούν τα κουφισθέντα πωλούνται ή δωρούνται ή σεκρέτω τινὶ άφοσιούνται ούτε αι συμπάθειαι, εί μη έπι ταις συμπαθείαις, ώς πολλακις εἰρήκαμεν, ή τριακονταετία παρέλθη μετά γάρ την τριακονταετίαν άπολύεται ή συμπάθεια είς κλάσμα και έκτοτε δίδοται τός δημοσίω άδεια ποιείν έπε του κλάσματος ο Βούλεται. και γάο εί λέγεται διορείσθαι του βασιλέα γήν τόσην πρός τόνδε ή τόνδε έπο παντός του [1. 270 κ.] εύρισκομένου κλάσματος ή της συμπάθείας άλλα τοῦτο έπί τῶν μετά την Totaxopractian vocitat.

ή μέντοι γε λεγομένη δρίθωσες έπι ταϊς συμπαθείαις όθτως έγίνετο. τών κληρονόμων Εποστρεψάντων έντος της τριακονταετίας και έν τη διακατοχή των ίδιων γενομένων στάσεων και προστάξεως γενομένης τας συμπαθείας έπορθωθή αυτοίς, ουκ εύθυς τὰ όλα ψηφία έπωρθούντο τοις κληρονόμοις τοις υποστρέψεσε και νεμομένοις τα συμπεπαθημένα τόπια. άλλ' ο μέν πρόιτος έπώπτης έπωμβου τὸ έκτον μέρος τοῦ ψηφίου διὰ συστασιε τοῦ πένητος, ὁ δεύτερος το ήμισυ, και ο τρίτος το τρίτου μέρος: και ούτως δια τριών έπου τών το παν επληρούτο, φέρε γαρ είναι το ψήφιου της συμπαθείας ή του κλάσματος νόμισμα α. επωρθούτο ούν παρά μεν του πρώτου έποπτου νόμισμο ς , παρά του δευτέρου νομισμα ε , και παρά του τρίτου νόμισμα γ , όμου νόμισμα α. ονί δε είδεναι ότι της τριακονταετίας παρελθούσης και της συμπαθείας απολυθείσης είς κλάσμα δια προσγραφής έτέρου έπόπτου, δρθωσές έπι του κλασματος ούκ έγίνετο, εί μη πολλάκις ή προσγραφή του κλασματος ούκ έφθασε μετά την τριακοντακτίαν γενέσθαι, ή έαν μη πρώσταξες έξηνεχθη ρητίος την δρθωσιν διορίζουσα γενέσθαι έπὶ του κλάσματος. προστάξεως γαρ γενομένης έπορθωθή και τα κλάσματα πρός τους ευρισκομένους νομείς ή τινάς άλλους, έκ παυτός τρόπου και τούτο έγιντο.

(15) έτε και τοῦτο εἰδέναι δεῖ. ἐὰν τὸ κλάσμα διεπράθη η ἐδωρήθη, το μέν παλαιὰν ψηφίαν ἀπώλετο, και παρά τοῦ ἀγοραστοῦ ἡ τοῦ τὴν δωρεάν λαβόντος ἔπὶ τῷ αυμπαθεία τελειοῦσθαι οὐκ ἐτίθετο, προσεγράφετο δὲ ἐπὲρ ἐνὸς ἐκάστον καμάσματος τοῦ παλαιοῦ δημοσίου. λιβελλικόν δημόσιον μ' ἐς' !

(16) το άνεκφωνητον κλάσμα οπηνίκα του άποματος (1) το ψηφίου

Le. syntagerer Labourer mipor.

κείται του δε παραλειφθέντος κλάσματος, ούδαμώς οίον ώς έν τύπη είπεῦν ἀπὸ μ' ε; μ'.:

(17) ένθα μέν ἐπίσκεψις βασιλική παλαιάν ἀνακοίνωσιν έν τοῖς χωρίοις κέκτηται, τὸ τοιοῦτου ὅλον ψηφίον τοῦ ἀπόματος ὑπέρ τῶν βασιλικῶν εἰναι αὐτουργὸν ἐρμηνεύεται. ὅταν δὲ οὐδ ὅλως βασιλική ἐπίσκεψις μετουσίαν τινα κέκτηται, εἰς κλάσμα τοῦτο καὶ συμπάθειαν ἀπολύεται.

(18) τὰ ἀνέκδοτα ὀνομαζόμενα περί τῆς συγγραφής τοῦ κώδικος ταῦτα εἰσί: τὰ ἐν τῷ καταγραφῷ τῶν διαρίων ὁπωσδήποτε παραλειφθέντα ἀγρίδια, εἴτε διαγνωσθέντα καὶ προτεθέντα τῷ προτέρα καὶ πεπλανημένη ρίζη, ἔστω γὰρ εἶναι ταῦτα νομίσματα λ καὶ τὰ μετὰ τοῦτο διαγνωσθέντα

горібрата ₹.

(19) ή πτώσεις και ή διώπτωσες κατά διαφόρους αίτίας έκλήθησαν. ώνομασθη γάρ πτώσις ο παντελής και άδιορθωτος τής γής άφανισμός. είτε άπο σπάσματος άπο χάσματός τε και καταδύσεως, είτε άπο κατακλυσμού, είτε ἀπὸ στυφώδους ἐκπυρηνίσεως, είτε ἀπὰ άλλης τικός μεγάλης αίτιας διάπτωσες δε εκλήθη ό διορθούμενος άφανισμός, έπι καιρον γάρ ποτε τινά του άφανισμου έπικρατήσαντος, πάλιν είς την προτέραν όψων ή γη άποκαθίσταται. Ισως γάρ άπό σεωμού τινός διερρώγη πέτρα ή βουνος και είς την δίοδον του ποτάμου έμπεσών έκώλυσεν αυτήν. ο δε επικλύζου έγενετο πάσαυ την γην εκείνην έως λυ ετέραυ εποίησε προσχώρησεν και δεξοδον ή άλυκώδης ποιότης έκ της γής άναβράσασα [[280]] το πρόσωπου αυτού εξηφάνισε και απρόσφορου πάντη άπειργάσατο το δε εμεινεν ούτως έχον έως κατ άλίγον και άλίγον ή μεν άνώδοσις τοῦ άλυκώδους έξελειψε, καὶ τοῖς όμυριμαίοις ὕδασιν ή γή πιανθείσα καὶ άποπλυθείσα αύθις είς το πρότερου είδος άποκατέστη, ταυτα είσιο αί λεγόμεναι πτώσεις και διαπτώσεις βγούν πτώσες μεν ο αδιορθωτος άφανισμός διάπτωσις δι ά διορθούμενος γίνονται δι έπι τούτοις συμπάθειαι, άλλα τη μέν πτώσει ούκ έπακολουθεί ποτε επορθώσει έπει ούδε διορθούται, τη δε διαπτώσει προσγίνεται καθ' δυ Ιδη καιρου ο επόπτης το πρότερου την γην απολαβούσαν κάλλος.

(20) ή μετάθεσις δισσώς λέγεται μετάθεσις γάρ λέγεται καὶ όταν δημόσιος κανών άπο χωρίου εἰς ἔτερον μετατεθή χωρίου, καὶ όταν ἀπό τοῦ προκατόχου εἰς τοὺς ἐφεξής εὐρισκομένους κληρονόμους καὶ διαδόχους ή τοῦ διαρίου ἔρμηνευθή διακατοχή. ἔστω γάρ ότι τοῦ διαρίου κατά τὴν πρώτην τοῦ εἡνισου ἀναγραφὴν περιέχοντος τὴν ὁνομασίαν τοῦ δείνα ἡ τοῦ δείνα, ἡλθεν ὁ μετά χρόνους τινὰς ἐπόπτης καὶ εῦρηκεν ἀντ' ἐκείνου τὰν κληρόνομον αὐτοῦ καὶ προσεγράψατο τοῦτον, καὶ πάλιν ἔτερος ἐπόπτης μετά χρόνους τινὰς καὶ εῦρηκεν αὐθις ἔτερον καὶ προσεγρώψατο κὰκείνου ὑμοίως ἐκείνου.

καὶ ούτως ή διακατοχή μετετέθη άπο τών προκατόχων είς τούς έξης.

(21) τούτο δε το εθρισκόμενον έν μέση τών διαρίων "καὶ ύπερ τόπου άποσπασθέντος" ή "τόπος άποσπασθείς" κατά τοιαύτην αίτίαν έγράφη. Ισως γάρ τινος Εξωνουμένου ή κατά δωρεάν λαμβάνοντος το εθρισκόμενου ελάσμα καὶ την συμπάθειαν, ὁ την παράδοσιν ποιών έπόπτης οὐχ δσον έδει ἀλλὰ πλίον τοῦ δέοντος έστὶν δτε παραδέδωκεν, εἶτα ἐλθών ἔτερος καὶ τοῦτο διαγρούς έξ έγκλήσεως ή προσαγγελίας τινός, ούκ άπήτησε διά τιμήματος το ύπερπλεον άλλα άπεσπασε το περιττύν και πρός το δικαιούμενου μέρος άντιπαραδέδωκεν κάντεύθεν το περιττύν γράφεται "και ύπερ τόπου άποσπασθέντος" ή "τόπος άποσπασθείς."

άλλὰ καὶ ταῦτα τὰ γραφόμενα ἐν μέσφ τῶν διαρίων τῆς αὐτῆς ὑποταγῆς τοῦ χωρίου τοῦ αὐτοῦ στάσις τῆς αὐτῆς ἡ προύστειαν ἡ ἐγρὸς ἡ χωράφιον τοῦ αὐτοῦ ἡ τῆς αὐτῆς ἡ ὑπὲρ χωρίου κειμένου ὑμοίως τοῦτο σημαίνει τῆς αὐτῆς ὑποταγῆς καὶ τοῦ αὐτοῦ ὑποτεταγμένου ὅθεν ἐξήρτηνται ὅηλαδή, καὶ ὅπου συμπεμάγουται τε καὶ συνομαδεύονται ἡ μνημονευθείσα στάσις, το προύστειον, ὁ ἀγρὸς, καὶ τὰ χωράφια.

(22) έτε πρός τούτοις και το γραφόμενου όμας διά τῶν κληρονόμων τοῦτο δηλοί το διανεμηθήναι του στίχου παρά τοῦ ἐπόπτου ἡ παρά τοῦ προκατόχου τοῦ στίχου πρός διαφορους τῶν ἐξ αὐτοῦ κληρονόμων και νέμεσθαι παρ αὐτῶν τὴν ἐπιβάλλουσαν τῷ ψηφίω τοῦ όλοῦ στίχου κατά τὸυ γενόμενον τοῦ ψηφίου διαμερισμόν πρός τοὺς δηλωθέντας κληρονόμους.

(23) καὶ μὴν καὶ τὸ γραφόμενου "διὰ τῶν ὑποτεταγμένων νομίσματα τόσα ἡ τόσα" τοῦτο δηλοῖ: ὅτι τὸ παρὰν ψηφίου κατὰ διανομὴν Εχουσιν οἱ κάτωθεν τοῦ παρόντος στίχου ἀναγραφόμενοι τελευταί: καὶ ὅταν ἀναπληροῦσι τὸ παρὰν ὅλου ψηφίου διὰ τῶν ἐν ἐκάστω τοῦτων ἀναγραφομένων ψηφίων.

(24) όμοίως τούτοις και το γραφομένον "ύπερ μέρους ήμίσεος ή ύπερ μέρους τρίτου ή τετάρτου "τούτο δηλού την γενομένην εν τή υποστάσει του προκατόχου διανομήν είς τους μετ αυτόν ή έξ αυτού κληρονόμους, [f. 280 v.] είτε κατά την εκείνου βούλησιν και κληροδοσίαν της διανομής γενομένης είτε κατά την εκάστου των είς έαυτών ταύτην διανειμάντων δίναμιν, έστω γαρότι ο μεν έξ αύτων το ήμισυ της υποστάσεως ελαβεν, ο δε το τρίτου, ο δε το τεταρτου ή άλλοτι μέρος πλείου ή ελασσου, και καθώς έκαστος έλαβε προσεγράφη τῷ κώδικι: έἀν δὲ το γεγραμμένον περιέχει καὶ " ὑπέρ μέρους ἡμίσεος ἡ τρίτου ἡ τετάρτου στάσις κειμένη εἰς ἔτερον χωρίου." ταύτα δηλού ώς ο αναγεγραμμένος έν τώδε το χωρίω υπόστασιν έχων έν έτέρο χωρίω και βουλύμενος μη καθέλκεσθαι ώδε κάκείσε, ηξίωσε τον έπώπτην. του δημόσιου κανόνα δατις επέβαλευ αυτώ ύπερ της ήμοτείας στάσεως ής κατείχεν έν τώ έτέρο χωρίο, ίνα άπεκείσε μέν αύτον άποσπάση, ένταύθα δε ретавнов, как обтых бей рейх кавенжитах атактичест. бей ей дет εύδιαγνωστον έστι το ανήκον ψηφίον το ημισεία έκείνη μερίδι ή τη τρίτη ή τη τετάρτη, όφειλει ο την ικάνωστι και έπιβολήν των χωρίων αμφοτέρων ποιήσαι βουλόμενος, είγε φρουτίζει της αληθείας, αποσπάσαι τούτο από της ρίζης του παρόντος χωρίου και τη ρίζη του άλλου χωρίου ένώσαι εί δε μη έστιν ευδιώγνωστον το ψηφίον, ἀνάχυσαν τῆς γῆς τῶν άμφυτέρων χωρίων woongaar.

(25) το άρίθμιον παρά τοῦ διοικητοῦ μέν όπαιτεϊται, οὺκ ἐστὶ δὲ τὸ ὅλον ὅημόσιος κανών οὐδὶ γίνεται τῷ ἀριθμίω ἰκάνωσις γῆς κατὰ τὴν ὅλην αὐτοῦ ποσότητα, ἀλλὰ καθ' ὅκον οἱ παλαιοὶ στίχοι καὶ τὰ διάρια περιέχουσι: τὰ γὰρ ὁὴ ἀρίθμιον κατὰ τίνδε τὸν τρόπον συνέστη καὶ ἀνομάσθη.

(20) ἐτυπώθη ἀπὸ παλαιών χρώνων ή τοῦ δικεράτου καὶ ἐξαφόλλων ἀπαίτησις ἐν τῆ διαικήσει, ἀπὲρ κοινωφελούς ὡς λέγεται τικός αίτίας καὶ τών της πόλεως τείχων περιποιήσεως, απήτουν δε και οι διοικηται την λεγομένην συνήθειαν αίτων, άλλα και οι ταξεώται το έλατικόν, άτινα επειδή υστέροις καιροίς έκ προσωγγελίας τινός εσωματώθησαν και τώ μεν όημασεω προσθήκη άπο τούτου γέγουεν, ούκ άπελύουτο δε ταθτα και είς δημόσιον κανόνα, απήρχετο ο διοικητής είς το χωρίον και άλλους μεν απήτει ίδίως του δημόσιον κανώνα και ίδιως το δικέρατου έξάφολλου την συνήθειαν και το ελατικόν, έν άλλοις δε ωμάδευε πάντα όμου και όπηρίθμει καί άνελάμβανες όμαδικώς νόμισμα, ίσως δε καί τινας ύπεραπαιτήσεις άλλας καί προσεγράψατο ἐν τῷ ἰδίφ καδαστῷ (?) ὁ δείνα ἐτέλεσε διὰ πάντων αὐτοῦ των διαρίων αρίθμιον και τόσα τούτεστε του δημόσιου αύτου καυόνα σύν τοις είρημένοις αύτου παρακολουθήμασι και ταις συνηθείαις. είτα τών καδαστών (1) από τοῦδε τοῦ διοικητοῦ είς τον μετ αυτον και απ' έκείνου πρός έτερον μεταβιβαζομένων και τελευτών είς πρακτικών τάξιν αποκαταστάντων. ή του λριθμίου αυτού προσγραφή επλάνησε πολλούς είς το έξ ολοκληρίας λογίζεσθαι ταύτα δημοσίου καυόνος έχουσι δίκαιον ευρήκαμεν δε και έν πολλοίς των σαρεκβόλων προσγραφάς έν ταις όμασι τοιαύτας όμου ή όλη μίζα ή ό άλος τούτιον δημύσιος καυών νομίσματα τόσα δικέρατον νομίσματα τόσα: Εμφολλον υσμίσματα τόσα: συνήθεια και ελατικόν νόμισμα τόδε, και όμου δικέρατον και εξάφολλον, άριθμές νομίσματα τέσα, σύν τή συνηθεία και το ελατικο. διο τέκ δφείλει το δρέθμιον έξ ύλοκλήρου ώς δημόσιος κανών λογίζεσθαι και Ικάνωσιν γής λαμβάνειν άλλα κατά την ποσύτητα τών παλαιών αυτού διαριών.

(27) και τα απαιτούμενα πάκτα ἐν τῷ διοικήσει δημόσιος ὑπάρχει κανὰν καὶ ἰκάνωσιν ἔχουσι και ταῦτα γῆς καὶ τῷ ὅλῃ μιζῷ τοῦ χωρίου συνεισάγονται τε καὶ ὁμαδενονται πλὴν ἀλλ' οὐχ οῦτως καθὰς ἀπαιτοῦνται, ὁφείλουσι ταῖς ὅμασι συνεισάγεσθαι καὶ τὴν οἰκείαν λαμβάνειν ἰκάνωσιν ἀπαιτοῦνται γὰρ [f. 281 r.] γὰρ (κῖς) τὰ πάκτα ἀνὰ νόμισμα τι τούτων δὶ τῶν νομισμάτων τὰ μὰν ἡμισυ ὑπάρχει δημόσιος κανῶν, τὰ δὶ ἔτερα ἡμισυ συνήθεια, καὶ ἡ λοιπὴ παραεολούθησις Ισως δὲ καὶ ὑπεραπαίτησις σωματωθείσα.

(28) μετά την συμπλήρωσεν τοῦ ὅλου διαρίου ή τοῦ ἐτέλεσε ὁ δείνα προσγραφή, εἰ μὲν ἐν τῷ χαρτίῳ τοῦ γενικοῦ ἀναγράφεται, μετάθεσεν ἀνόματος ὅηλοῖ ἀπὸ τοῦ προκατόχου πρὸς τὸς κληρανόμου αὐτοῦ γενομένην παρὰ τοῦ τηνικαίτα ἀναγράψαντος εἰ δέ ἐν τοῦς τῶν διοικητῶν πρακτικοῖς, ἀμφιβάλλεται ὁ τελεστὴς εἰ κληρανόμος ἐστὶ καὶ οῦ δικαιοῦται ἀπεντεῦθεν

AND HOUSE THE TOU CTENERS TROUTS PROPERTY

(29) ἐν τοῖς λυβεκλικοῖς δημοσίοις τοῦ νομίσματος τὸ δωδέκατον μέρος νομίσματος όλοκλήρου ὑφείλει καμβάνειν ἰκάνωσιν τὸ ἔκτὰν μέρος νομισμότων β, τὸ τέταρτον μέρος νομισμάτων ק, καὶ οῦτος κατ ἀναλογίαν ἔκαστον, ἔιότι, καθώς ἀνοτέρω εἰρήκαμεν, ὁ κλασματισθεὶς καὶ δωρηθεὶς τόπος εἴτε διαπραθείς οὐ παντελώς μένει ἀτίλεστος, ἀλλ' ὁ τὴν δωρεὰν Ειενεργῶν ἡ τὴν διάπρασιν τίθησι τῷ λαμβάνοντι ταύτην ἀντὶ δημοσίον κανώνος νομίσματος ἐνὸς τοῦ καὶ συμπαθηθέντος καὶ κλασματισθέντος νομίσματος ὁωδέκατον μέρος ὅστε τὸ δωδέκατον μέρος τοῦ λιβέλλου ἰκάνωσιν ἔχει νόμισμα α.

THE DATE OF HESIOD.

(A Lecture given in November, 1914.)

Ogni strada, we are told, ogni strada men' a Roma. The roads which lead to Homer, an older goal than the Shrine of the Apostles, are nearly as many. One of them, not the most followed, runs through the literature of the historical centuries. When I say historical, I must observe that I use a term and make a distinction unknown to antiquity. To the ancients Homer was as historical as Pindar, the people of whom he sang were as historical as Pindar's patrons, often their descendants. The μυθώδες or untrue element which the Greeks noticed in their poetry did not touch the individuals or the events; it was detected in violations of ascertamed natural laws, such as the divine interference in ordinary life and the three daily tides of Charyledis. It is the modern world which has set a gulf the other side of Archilochus or Terpander beyond which persons are not found and all we descry is Gods in the making, bloody rites, and commercial movements which have come down to us under a false anthropomorphic and individualistic guise. It is difficult to shake off these modern prepossessions, to realise that the Greek world before 700 was not lit by corpse-candles, a dim field of legal fictions, eponymous and heraldic ancestors, but as human and positive as Phidon with his weights and measures and Solon with his code—as human and positive as the buildings, jowels and vessels which that world has left us. We are reluctant to admit that our ignorance of Lycargus differs only in degree from our knowledge of Pisistratus, increasing in proportion to lapse of time and such accidental circumstances as the absence of written records.

If it is difficult to realise that the centuries before 700 resembled the centuries after, we may at all events build upon the period which our contemporaries allow to have been peopled by human beings. There are two centuries—going back from Pindar, let us say, of whose flesh and blood existence no one doubts-of written record, in which we do not find Homer. Homer is spoken of followed completed but he is not there himself. He was carlier, he is looked back to. If therefore we define the dates of this younger period we obtain an apparent terminals ante quem for Homer.

² The best account of Heriod is the admir- which aummarises the literature. Chronologiable article 'Heriodes' in Punly-Wissens East. est data are collected by Felix Jacoby, Ins. Encyclopadic, vol., uz. (1912), by Alase Ersch. Harmor Farines, 1904, 152 app.

The most obvious province of this kind is the literature known as the Epic Cycle, which contained the bistory of the Heroic Age, that is to say its two great undertakings-for it had no other history-the interstate double Theban wars, 'for the sheep of Occlipus' as Hesiod says, and the international siege of Troy, for Menelana' wife. I must be allowed to assume the substantial accuracy of the ancient dating of the Cycle;2 it depends on the same sources on which all Greek dates depend, local chronicles or spot, avaypachai or lists of kings, priests, wporavers, and victors in games, and on the historical collections and studies of the Peripatetics and Alexandrines. It is an extension, the same in kind, of the system which gives us the aera of Terpander and Stesichorus, who are firmly fixed in history. And apart from the documentary evidence, the period to which this chronology assigns the post-Homeric movement in opos, one of great volume and activity, is the period when according to nature it must have taken place, the period, namely, before the rise and popularity of the lambie, melic and lyric forms of literature-amazing advances upon metrical annals which only differed from one another in being more or less romantie. The new forms rapidly covered the ground; Stasicharus and Alexens overwhelmed the Cycle and the Homeric hymns. Hence the inception and production of the Cycle took place in an earlier age, when the old hexameter vehicle was without a rival and still strong enough to tempt new talent. For these Cyclic poems such as they were, some better like the Thebais, others insignificant like the Telegonia, a wealth of candidates, mostly colonial, is supplied; and their date is pushed well towards the middle of the eighth century.

Consequently, as far back as 750 we find no place for Homer. The Homeric Hymns, though vaguer and all but traditionless, chime in; the oldest of them appears to be contemporary with the greater and older Cyclic pound. The same may be said of Eumelus and the Corinthian metrical historians, and of Antimachus of Teos.

I propose now to consider the evidence, in this direction, of Hesiod. Time has dealt hardly with the Boeotian singer, and has blown most of the tradition concerning him to the winds. His lives are Byzantine, and nearly all the statements about him in the old authors are in some way colative to Homer. He has one marked characteristic. While tradition—

^{*} See C.Q. 1908, 04 ff., 81 ff.; 1918, 46 ff.

The Hymn to Apollo, work of Cymaethus who, first of rhapsades, stated Syracus after its constators, that is in the sighth century, exhibits Deley and Delphu at parts of one celligious system, and in so far agrees with the Hesioche verses (fr. 265) which represent the Bosotian Hesiod and the Johnsu Homer mosting at the Deliza signs.

Buide the greater Alexandrians and Praxiphones the Peripulatic, Hestodic literature incindus Amphinu of Thompias (de 21 rep) voi de

Execute possesses Ath, 629 A) F.H.G. iv. 301. Charmenns & e⊋ wept 'him53 Clean Alex. atrom. 1. 61-3. Nicocles and Nicocentes (& e⊋ wept voi & 'Execute dynamic F.H.G. iv. 464, 465 (perhaps the same), two posts Charmin of Orohomenus and Hagesinous in his 'Av86, both extinct in Farmanius' day and reported by the Corinthian Cullippes & epi & 'Oρχαιοσίσει συγγραφή (ix. 29 and 38). Callippes himself has no more mention F.H.G. iv. 352. The verses of Charmin remind one of Lyrean the postinol guide (& raw & exceptor Egypure) Para. 1. 13. 3 etc.

and general belief—represented Homer and his work—Hymns, Cycle, and even parody—as one and indivisible, and only growing intelligence and the dawn of critical method eventually separated the *Hind* and *Odyssey* from the rest, the authorised view of Hesiod from the beginning ⁵ was that the verses were not bomogeneous.

When Pausanias came to Thespiae on his Bocotian round, the representatives of the Corporation who owned the land and the sagri broghi, the συνθύται μουσών 'Hosočeίων, told him dogmatically that the Works and Days alone came from the Master's hand, and showed him the imperishable ue varietur copy on lead, wanting the procemium which we read at the head of the poem. The great mass, then, of Hesiodic writings, the Theogony, Catalogi, 'Holar-of which no contemptible amount has been yielded of late by Egypt-and minor mantic lore, was the output of successors and disciples. This agrees with the Homeric circumstances. but the parallel is cariously in-and-out. The works of both schools bore the name of the Master; but whereas the post-Homeric poems were assigned in good time to their real authors, the anonymity of the Hesiodeans was unbroken. There are no claimants for the Theogony. At most we find Cereops of Miletus, Hesiod's rival according to Aristotle (in 7 wepi ποιητικής 6), put up for the Aegimius (Athen, 502 c). The Thespian tradition is borne out by the words of the writer of the Theogony when he says 'I begin to sing the Muses of Helicon, who once taught Hesiodos his fair song as he shepherded his sheep under mighty Helicon.' These words can have no meaning but that the speaker and his predecessor were different. The near neighbourhood of the Nine Muses imposed this canonicity on the Hesiodic school; the influence of the Chian guild, if we believe the Homeric poems to have once been in their hands, was less authoritative.

The bulk therefore of the Hesiodic corpus is later than the Works and Days. Of the portion of this corpus which has survived the Aspis has no allusion to determine the date of the Catalogi (from which its first portion was taken). The Theopony however, in spite of the timelessness of its main subject, dates from a period which may be defined. It belongs to the class of poems which admit the actual world. As the Cycle amachronises with eagerness and admits into the heroic age the Greek colonies, the Euxine and the Crimean chersonesus, the Theogony, without amehronism indeed, recognises the geography of its time. It mentions Actna (860); Homer does not, unless the Cyclops be Aetha. Homer must have known Actns, or at least that there was a snow-capped volcano in these parts, even if he did not know its name, for Myconsean trade with Sicily had existed for centuries and the argament that the portions of the Odynsey where Sicily is mentioned belong to the colonial period is one of the most extraordinary signs of the mental habit of the last generation of Homeric critics. The most unobservant trader must have noted Etm. One passage, the list

^{*} The author of the Thespony announces * And Diog. Laurt, il. 46. that he is not Hesion.

of rivers 337 sqq., is of much interest and value. I cannot discuss it in all its bearings, but I may say that while Father Nile here makes his entry on the geographical stage-a doubtful entry-and we also find for the first time the Po, the Strymon, the Dannbe, the Phasis and the Haliacmon, we look in vain for the Halys, the Rhone," and the Borysthenes. We are in the same world which lies on the horizon of the Aethiopis and the Cypria which allowed Artemis to shift Iphigenia to the Crimea, and Thetis to intern her son on an island at the mouth of the Danube. The Milesian settlements in the Euxine, or some of them, have taken place, but there is no west beyond. Aetna, the Latins and the Tuscans. For the writer is the first to utter these famous names. The Tuponvol are ruled by Circe's three sons, Latinus, Agrius and Telegonus. They live μάλα τήλε μυχώ νήσων ίεράων, that is, past Sicily and behind Capri, Ischia and Circeli. There are no Italians, no continent and no Tiber.16 On the whole the writer had the same outlook as Arctimus of Miletus, who wrote ol. 9, '400 years after Troy.' There is nothing in the poem to drag it into the next century-and the same may be said of the fragmente," most of which doubtless come from the Κατάλογοι.

We come next to the Works and Days, with the presumption that if its writer was the predecessor and model of the Theogony-poet—and doubtless dead, as he that left untold the story of Cambuscan was when Milton wrote—the model turns the century. His book gives vary vague evidence on the point. Neither its witch-wisdom, which Professor Murray has treated with his usual charm, nor his Farmer's Almanae

της έργασιάς καρπών ώρας άρότους

agreeably expounded by Professor Mair, involve history. I return, indeed, to the Almanac, but I say goodbye to the witch-interest. Hesiod's observations also on the necessity for work, and the painful consequences of passing hours in the warm $\lambda \delta \sigma \chi \eta$ in the winter, are not in time. The parts of the poem which do however faintly suggest a period are these. I may first remark that in Homer's case we have an extensive field of archaeological evidence by which to control and date his narrative, and it is to be hoped that we may ere long have written evidence also. But in the case of Hesiod the evidence for the early history of Bocotia is—Hesiod. When Strabe (402) sketches the history of the country be has nothing to mention between the Acolic migration and the Persian war. The moderns have only added the

This is natural, if Maniflis was not founded till 600 n.c. Timesus, fr. 28, first mentions the tiver.

^{*} Theophy. M.P. v. 8. 3. am underpor mer alleger elements Kommier, sie 31 feb unsweierstein von under Trees und Versieren und Versieren von Ve

^{*} Afour seems to appear first in Pinder, fr. 140 b 60, then in Seymon 228.

[&]quot;Fink asw in "Ayuse the man of the ager Latiner. But was there such a phrase to the

sighth century I and the place is surely covered by Asriess. I have thought that Sysas might accompanies, the unity behind Connec. The Kanwassi occur in the Heatodic parody of Enthydemus (Ath. 116 A) along with the Bruttians.

¹⁾ They introduce to the world the Mocedonian, the Arab, the Ligarian and the Scythian, the Hyperboreans, the Eridsona again with its number, and Ortygia.

Bocotian league of the sixth century, from the evidence of coins. Now Hesiod on his own showing is post-Dorian, a returned colonist from Cyme-I hold my hand therefore from the fascinating question of Bocotian origins, as much too early for Hesiod as the sixth century—which can only concern his latest disciples—is too late.

The first passage in the Works and Days which we need examine is the famous list of Ages of the World, 109 sqq.10 This is an evident blend of archaeological memory and a theory of human degeneration. Bronze followed by iron we know to be correct; but Hesiod's memory does not extend beyond bronze; he has no stone. On to this sequence were fitted members of the degeneration-series, gold and silver, and the whole was intended to exhibit the continuous decay of mankind. There is one exception in the downward course. Between bronze and iron Hesiod inserts the Heroes, who have no corresponding metal. The coincidence with apparent fact, that is to say, the civilisation of the heroic age as depicted in Homer, is wonderful, and Hesiod has been used to support the belief that there was a period when both bronze and iron were in use during which the Pelopidae and Acacidae and other contemporary heroic houses ruled Greece and made war, some on Thebes and all on Troy. I am not averse from believing that Hesiod really meant that the age of Heroes intervened at this exact stage, though it is an inference from his words; but I must observe that if we so believe there is hardly any limit to the accuracy of the Greek historical memory. The traditional past of the Greeks will have to be accepted in many less difficult cases,4 and literature, for instance Pindar's statements, will have to receive more respect. This conclusion I accept, as one who has never doubted the essential accuracy of the Greek recollection. Πιστον δ' ἀπίστοις οὐδέν, as Pindar says.

Here, however, I am only concerned with the fact that Hesiod knew of a time before iron existed, $\mu \delta \lambda as$, δ obs since $\sigma \delta \delta \eta \rho os$, when men's armour, their tools, and their houses were of bronze. This emphatic statement must surely date from a period not long after the actual introduction of iron. This distinction between the metals as resources of civilisation does not occur again in live literature. Iron must have been nearly as attractive as when the Suitors' fingers itched for it.

Again, the description of the Heroes implies nearness to them. The distinction indeed between Heroes and mon was always made. In Pindar human ancestors begin with the return of the Heraelidae. Before that the sons

¹² I refer to the article 'Banesia' by F. Clauer in Pauly-Wissessa iii, 1888.

¹⁸ Instated by Aretus Phoen. 108 sp (gold, elliver, brourse). I refer to Mr. Silom interresting remarks. Authropology of the Greeks, 1914.

[&]quot; S.g. that the Durians came from Pindus, and Pelops from Asia.

The anecdote in Herodotic i, 68 which Mr. Sikes addings Lc p. 24, note 22, above, it

seems to me, admiration for the process rather than for the metal. The forge is always attractive. The satisfuarius Apollourius of Rhodes to the first improvement thought from one ralled gazants by the ancients (a view we have seen revived): but his commentator was better informed, and quotes Hested (what Ap. Rh. & 430). Pausantas, another antiquary, notices Homer's language and confirms it by some exhibited (iii. & 3).

of Acacus, or whoever they may be, have a history on which Pindar dilates; but with the meeming of ἀνδρες the poet makes one step to the patron's maternal uncle. Hesiod draws this distinction, but in addition is acutely conscious of his own inferiority and that of his age, and of the virtue of the Heroes, a kind of set-back in the degeneration-series Silver-Bronze-Iron, and he trumpets their elevation from man to God. They all attain Elysian fields. Here Hesiod is of his age, the age that wershipped Zens—Agameimon, Diomede and Ulysses. But I see the points flash in the thicket, or rather the periscope in the waves, and like Pindar κώπαν σχάζω. It is enough that Hesiod is aware of a once universal use of bronze, and of an essential difference between the men of his own time and their predecessors.

His recollection also is strong of the two exploits which composed the history of the Heroic Age, the two campaigns against Thebes and the one expedition against Troy. (The first Trojan war, when Heracles and Telamon battered down Laomedon's wall, he has forgotten.) Nothing has occurred in his own day to rival them, and the actual conditions are misery. The colony in Acolis was no success, and justice in Bocotia is administered and property held by superiors who hear the title of Basileis. This does not mean 'monarch': the term appears to connote little more than 'gentilhomme.' We find this meaning currently in Homer, but not in ordinary literature. It is therefore another mark of age. The squire of Ascra belonged to a different order. You might, and did, gild his palm, but he was your better. A political perhaps racial, distinction is implied. Who were these Bagikers whom the returned colonist found in Bocotia but the incoming Heraclids! We do not know the name of the baron of Ascra, 10 but Thebes was the property of the house of Aegens. I am not aware that there were περέσται in the Boestian communities, but the wail ' fatigue and misery, καμάτου και διζίος seems to rise from such a class, as the timehonoured lament that the children are not like their fathers may point to a mixture of race. Such conditions are not often long existent; the subject race reasserts itself. Or if they are permanent they are accepted as natural. These laments do not recur in the Hestodic school. I think it may be fairly argued that Hesiod wrote not long after the catastrophe which turned Againsmnon and Ulysses into objects of worship and produced the economic misery of the Boeotian farmer.

The autobiographical passage (654-662) which is a natural consequence of the mention of the sea, and must not be doubted on the evidence of an aesthetic judgment like Platarch's, asserts that the Master went across the Euripus to sing at the wake of Amphidamas at Chalcis. The same story, amplified, with Homer as the antagonist, is reported by Platarch (conv. sept. sap. 153 r) from Lesches. Lesches by the rule of parsimony must, until the contrary is proved, be the Lesbian author of the Thus μικρά, the contem-

[&]quot; Who is the bank hold out in the apologue 202 agr. 1 Thebee!

porary of Arctinus.17 This poet tells us that Amphidamas had been a stout warrior in the Lelantine war with Eretria. So far Hesiod was a contemporary of the Lelantine war. Unfortunately we are no nearer a date, for this struggle cannot be defined by anything later than the Dorian migration.

However we see that the version of this story current in the latter half of the eighth century, that is to say in Lesches' day, is a heightened version of that in the Works and Days. The rival is named, and the theme is stated. We must therefore allow time—between the two accounts—for the story to grow, and pass the sea to Lesbes. We gain a second piece of chronological evidence similar to that of the Theogony with its mention of the Master by name. Both regard Hesiod at a distance, and in so far push the Works and Doys considerably back.

We may turn round and say that the Lelantine war also is carried considerably back, and clearly into the ninth century; and who can say that this is unlikely?

I hesitate to invoke Hesiod's horror of the water, as this is a fasting convention, and was sincerely held in late antiquity 18; or his mention, though the first, of 'black men,' κυανέων ἀνδρών (527).

Here we may consider the traditional dates ascribed to Hesiod. They are fewer than those given to Homer, which vary from the siege of Thebes to the time of Gyges, but they are sufficiently various. The Parian Chronicle, one of the treasures of the University of Oxford, puts him at 936 R.C. Pliny the Elder arrives at much the same date expressed in terms of the aem of himself. The Siov which has come down to us through Tzetzes puts Hesiod in the archontate of Archippus, the third Codrid. This would bring him nearer 1,000. There were however, more moderate estimates. Apollodorus made him live between 846-777.1 Eusebius and some others put him in the eighth century. We are unaware of the grounds that the original calculators of these dates had for their conclusions. The late dates ascribed to Homer (e.g. the seventh century by Euphorion and Theopompus) may be confidently treated as critical conclusions, that is dates arrived at by observations of allowous in poems attributed to Homer (as he was held to be blind on the strength of the Hymn to Apollo), and probably this is the case with Hesiod also. The Parian date, which practically coincides with Herodotus', ii. 53, is explained by Jacoby, who has devoted much labour to these matters, as a reproduction of the views of Ephorus, who as a Cymaean himself gave his countryman precedence by a generation over Homer,

[&]quot; J.H.A. 1912, p. 257 mg.

Aratus Phase. 110; it was a scorpe of inners, Greece having too much const, Diensenhus G. 73. See the sutherities in Stabsons, sel. iv. 17. repi exercities and exemples. The sider Cars regretted three things—of which the second was selected three things.

Pint. Cat. maj. 9. Strabo on the other hand.

an Asiarle and a traveller, gives the plain facts knothing yay tyders and source, and an allekson repeated 8 Section (c. 9)

Apoll fr. 6, up. Janoby, 'Apollodorm' Chronik' (Phil. Unitermed vel 1902, 118-120). The dates are an inference from Solimus, xl. 16, 17, part of whose statement is a suspensionly of papindle primare oblid.

as he indicated by the pedigree in his $\hat{\epsilon}\pi\imath\chi\hat{\omega}\rho\imath\sigma\varsigma$ (Plut. vit. Hom. 1., c. 2):

Apelles Macon Dies Crethnia Heniod Homer

The coincidence makes this view likely enough, but we do not know what induced Ephorus to choose the period 940-900 for his two heroes. The evidence derivable from the *Theogony* and the anecdote in Lesches justify us in rejecting an eighth century date for Hesiod's birth, but as between the ninth and tenth we are helpless.

This is not all the evidence. Hesiod has given us his apparent astronomical date. O.D. 564 he fixes the time in spring for cutting over vines by the rising of Arcturus, which appears above the streams of Ocean, that is the horizon, in the evening sixty days after the winter soletice. Arcturus rising now-a-days occurs fifty-seven days after the xxuxiquus rponal, and therefore we have the apparent date for an astronomical determination. I am not the first by any means to have recourse to this evidence, and my obligation is all the greater to the Radcliffe Observer, who has been at the pains to make a new and elaborate calculation. I am only sorry to have appealed to Dr. Rambaut's skill and labour in a matter where a positive historical conclusion seems to be so uncertain.

For, before we go any farther, is the figure έξήκοντα to be taken literally, or is it a round number! This amounts to asking whether a hexameter writer is likely to express units as well as decads. The contingents of ships in the Catalogue afford some evidence. There are twenty-nine entries, in twenty-three the figures are decads,—100, 90, 80, etc. But the remaining six give us totals of 22, 12, 11, 9, 7 and 3. The Suitors again are reckoned down to the last man:

έκ μέν Δουλιχίσιο δύω καὶ πεντήκοντα κούροι κεκριμένοι, εξ δε δρηστήρες έπονται
έκ δε Σάμης πίσυρες καὶ είκοσι φώτες έασιν
έκ δε Ζακύνθου έασιν εείκοσι κούροι Αχαιών,
έκ δ' αὐτής Ίθάκης δυοκαίδεκα πάντες ἄριστοι.—

and no one will have forgotten the arithmetical machine employed to prove that the Greeks were more than ten times as strong as the Trojans (B. 122 sqq.). It appears then that a bexameter-writer of this period,

professions.

^{1913, 20,} or Grupps in Rossber s.c. Orphorn. In an interesting paper in the Revue Historians 1914, vol. exvit. M. Form Waltz makes out the Hesindis rivilisation laber than the Homeric, mainly from economic considerations and the greater distinction of index and

See De Morgan in Heriod, the Poems and Fragments, done into English proces, with introduction and appendicus by A. W. Mair, 1908, p. 185; J. B. Pearson, Proceedings of the Cambridge Philosophical Society, vol. iii, partiii. (1877).

while perhaps inclining to decade, could when he chose express any two figures without difficulty; and therefore, given Hesiod's practical aim, and that an almanac is hardly literature, we may take 'sixty' literally, and not as a convenience for 61 or 59; though the other possibility must be kept in mind, and with a mund figure of course the evidence

disappears.

If 'sixty' is taken literally, Dr. Rambaut's calculation disposes of Ephorus date at once; for he will only admit the sixty days to be possible of B.C. 850, and that with reinstance. I of course accept this conclusion and throw Ephorus overboard. If we next try to utilise the astronomical evidence for a positive date, we must again consider the possibility that Hesiod took his figures from a predecessor, and that they were true of another time and place, not of Bosotia in the ninth century. This objection, which one would apply without scruple to a tragedian or to Virgil, seems less cogent the further we go back. We do not admit without some show of evidence that Hesiod had a predecessor of a different latitude, or a predecessor at all. Statements about the time of year to do something to plants must have a beginning they cannot be handed on like miracles and descriptions of places from one Saint's life to another; they are not true of distant climes; vines in particular are not widely distributed, the ploughman from the sun his season takes, and the practical tone of Hesiod's calendar, designed to regulate the all-essential dirty of periodic labour, inclines one to believe that Hestod's almanae was correct of his own period. Taking therefore Dr. Rambaut's anterior limit, u.c. 850, as available evidence, I find that this determination agrees with Apollodorus' date of 846-777; Hesiod's planuit, when he may be supposed to have written (as his tone is that of an elder to a junior) will be about 800. This date I believe is acceptable to Dr. Rambaut's conscience. Hesiod's birth about 850 does not contradict Herodotus' jealous 400 years and no more before me'; and leaves about the right time to enable the author of the Theogony and Lesches to look back to Hesiod as a Master with a growing tradition.

If, on the other hand, it were thought better to consider 'sixty' a round number, which Dr. Rambaut is rather inclined to do and neglect Arcturus altogether. I should still on the remaining evidence propose this date, as the latest which agrees with the other conditions.

Having dated Hesiod we have next to ask the origin of his school, the Bosotian epos; and its relation, temporal and causal, to the Homeric or Ionian.

Hesiod may be thought to have settled these questions himself, if he returned to Greece from Cyme, the very centre of colonial spos, and began with the help of the Muses to give out good counsel and sound knowledge. He might appear to have brought the old epic art with him and practised it in his new home. This may be the truth and the Bosotian school an escape from the Ionian. But the evidence must be stated. We have to observe that the Muses Hesiod invoked, and the Muses who through the centuries

lived on Helicon, are not the Muses of the Iliad. The Hesiodic Muses, to whom the Corporation did sacrifice through the centuries to Pausanias' days, were Heliconian. In Homer that mountain belongs to Poseidon. The Homeric Muses reside, so far as they have a residence, at Dorion in Nestor's kingdom, in the north of the historical Messenia. They are called 'Olympian' once, it is true, but in the same sense as the Gods generally are Olympian. It was to Dorion that Thamyris, a Thracian, whose last host was Eurytus, baron of Occhalia opposite Tricca, not far from the pass which led to Dodona—himself an innovator, who challenged Apollo with the bow ## 224—it was to Dorion that Thamyris came and defield the Muses to sing, with the results that we know. By Hesiod's time the Illepes, southern Thracians—to Homer a mere landmark like Emathia, between Olympus and Athos —had sent their Muses, friends of Thamyris, south. Hesiod found these strange maids seated on Helicon, and to them he prays.

The event was not forgotten in tradition. Strabo (471) tells us that Helicon was consecrated to the Muses by Thracians who had settled in Bosotia, and the same Thracians play a part in Strabo's account of the formation of the Bocotian state. Along with Pelasgi they drove the Beestians north (evidently into the southern basin of the Peneus), where they lived long with the 'Appaior; eventually they returned to their own land, and 'were all called Bosoros,' This account, taken no doubt from Ephorus (who intended it as a counterblast to Thucydides' story), represents the same people dispossessing the earlier inhabitants of Boeotia and planting their Muses on Helicon. The same story appears in a kind of 'evening edition' in Pausanius ix 29. A poet, Hegesinus a extinct in Pausanius day, but quoted by one Callippus do τη ές Ορχομενίους συγγραφή, wrote a versified Atthis, in which he related the foundation of Ascra, and how it was Ephialtes and Otus, sons of Aloeus, who first sacrificed to the Muses on Helicon, Muses three; it was the Macedonian Pieros who raised them to nine, if indeed they were not his own daughters. And Minnermus, in the proem to his lines on the Smyrnseans who fought against Gyges, i.e. in the reasonable times of the seventh century, distinguishes between dynasties of Muses.

So when Hesiad returned from Acolis to Ascra he found a school of verse at Thespiae, and under its inspiration strong his thoughts together? This may be, but the further inference is not very clear.

The nature of the singing which came (with other things) from Thrace is quite unknown. It is often supposed to have been Orphic.** Orphic is

He continued to explore his sine, e.g. in the Neeple of the Stirver, fr. 5, 8, along with Amphion.

m p 224 epp. This is the only mention of the word in Homer. B 766; it is a false resuling. By the sixth century the Pierce had been pushed as far east as Pangasum (Herod. elf. 172, Thue ii. 99).

Hagosinus, Kinkel, E.Q.F. p. 208; Callippus, F.H.G. (v. 352; Münnermus, fr. 19.

I refer to the formidable article of Grappe in Boscher, vol. iii. 1. Whather the statement quoted by Fracer (Pausanias v. p. 1543, that there was a Bulgarian post of the same of Orfer is confirmed I cannot say. The name would correspond to the bye-form 'Opper.

a vague term: in the age of Pisistratus, and of his Minister of Religion and Cults, Onemacritus, Orphic and Pythagorean doctrine was embodied in a series of hexameter poems attributed by a pious fiction to Orpheus. But the date of the descent of this kind of creed from the north-if it came from the north-into Greece is unknown, and there is no reason to push it back to the Dorian invasion. Moreover it is improbable that mountaineers descending, whether in one flood or in various streams, from the Haliacmon possessed a form of verse the exact counterpart of the elaborate Homeric hexameter. Hesiod's subject too is separated toto coelo from unvthing approaching Orphism.

The Heliconian Muses are more likely to have brought the pacan or the nomes with them. The pacan has been lately derived from the Paeonians, and in default of any even plausible etymology of the word as a common noun this is likely enough. Its mention in Homer may be called if necessary an anachronism. The nomes orthics, which Homer does not know, is given by one fragment of tradition to Thamyris; and its epithet sounds more like the Spartan goddess FOPOIA than the undistinctive attribute shrill. Some violent discord of this kind, paean or nomes, must have made the Triphylian Muses blind Thamyris. And when Hesiod was 'excluded from the Delphic agon because he could not sing and play the cithara at the same time," does this mean he was ignorant, as an Ionian, of the new music?--or does it mean the same as Nicocles' statement, schol. Pind. Nem. ii. init., that Hesiod was the first rhapsode to recite without the phormins?

It seems probable then that we should conceive of the new Thracian music as melic or lyric. 33 and of Hesiod as coming from a rhapsode-centre in Asia and adapting that narrative-art to the sad circumstances of Bosetia. This is the usual view," and it clearly entails the dependence of Bocotian epes upon the Ionian school, and therefore the priority of Homer, the master

of that school, to the ninth century.

We see of course that the language is practically identical with that of Homer; the verse, though rough in places, is the same. The predominance of Ionian epos over the Theogony is shown by the presence alongside of the Nile and the Ister of the absurd Trojan water-courses which had already received the canonisation of the Cremera and the Rubicon. Hesiod here copied his predecessor, as Polyhius tells us every writer did till his own day, when πάρτων πλωτών και πορευτών γενομένων people could see things with their own eyes. Moreover we have the palpable imitation of \$\Sigma\$ in the

^{##} C.M. 1912, 248.

^{= &}quot;Option remov Canton: I settapadiada redwor Fir arhadine, appearing from raceir and Judgie Spiringers. Com 34 C. So els & Lyting. glass on Herod, 1. 24 (Stein, vol. it. p. 449). Thomyrus is omitted in the roughents of this untion which are mattered in Suldan.

From z. 7. 3 Afyrru drubatijem red syc-

rispores are at established for the right beholer clerates or Hegosians are probably reaponuble for the story;

[&]quot; spires holes sailly 'Ypecalin Buil. in Stangest were a distant way of stating this. The murda favor, dusy, dusemax are clearly conuncted.

[&]quot;Rench, he.

Asps. Points of contact indeed between the Works and Days and Homer are few. They have a proverb in common, to the effect that shame is out of place in a poor man, but probably neither published it for the first time. We cannot expect to be able to compare a small Dutch-built craft of 800 lines with two swelling galleons of 15,000 and 12,000. Still, when Hesiod mentions Aulis it suggests to him the winter the Greeks lay there before they sailed for Troy; and the past heroic age possessed equally minds on either side of the sea. Hesiod marks the misery of the present, the Bocotian townships under their Dorian masters. Homer, who was perhaps better off in Ionia, shuts his eyes fast to his own world and decks his nation's past, the age which had brought down Thebes and set Troy alight, in all the colours of passion and marvel.

T. W. ALLEN,

APPENDIX ON WORKS AND DAYS, 564 899.

Extract from it Letter by ARTHUR A. REMBAUT, F.R.S., Raddiffs Observer.

The problem is not without difficulties arising from the vagonous of the statements and the most tainty of the data. I am afraid the lines of the poem will hardly suffice to fix the date of Hesiod with any precision; but they may possibly serve to place a limit below which is must lie, and I believe they show that the traditional date, 930 m.c., or thereabouts, is much too early

I take it that the fourth line in the process must be translated "first rises brilliantly shinned," or perhaps I might say "first rises visibly," at the beginning of night, "i.e. "In the evening twilight." Now the first rising of a star in twilight is a most indefinite kind of phenomenen. Had we been given the last time on which it ross in twilight the problem would be more definite. But we must take the statement as we find it.

In the early part of February, say forty days after the Winter Solution, the star sound not rise until twilight was over and the castern sky would be quite dark when the star appeared above the barizon. Each day the rising would occur about four minutes earlier than on the previous day, until a date arrived when the rising took place before the full darkness of night had set in. But it is hard to say proceedy when twilight ends and darkness begins, and in determining this moment a great deal will depend on the idioxyneracy of the observer.

Ancient astronomers devoted a good deal of attention to this phenomenon, and we are not without indications as to what their views some on the point. The question has also suggest the attention of modern investigators, but in discussing the meaning of the words of an ancient post it will be best to be guided by the clows of the enciums so far as they have come down to us. From a statement of Piny's it would appear that Postdonius (80 s.c.) considered that twillight haited till the sun had sunk the below the horizon. This, however, corresponds to the last vestige of daylight. The great Alexandrian astronomes Prolemy (130 a.s.) firm the appearance of first magnitude stars at the moment when the sen is 12 below the horizon. At this time there would still be a small but perceptible amount of light remaining. Let us call this a 12 trilight.

When a 12 twilight is resched the stars of the first magnitude begin to be visible, according to Ptolony. But Arcturus is brighter than an average first magnitude star, and at any considerable altitude would ordinarily be seen in a brighter sky. On the

^{* # 847, 852,} O.D. 200.

other hand, in the problem before us the star is by hypothesis close to the horizon, where the increased thickness of the atmosphere would diminish its brightness. Setting one consideration against the other, however, we cannot be far arong in soneluding that when the poet says the star first rose 'at the beginning of night' he may be taken to mean is a 12° swilight. The deeper the twilight see postulate the later will be the date indicated by the passage, whilst, if we assume that a very much brighter twilight is intended, it is doubtful whother the star would be visible at all to the naked eye; it would certainly not be conspicuous to the ordinary farmer. Thus a 6 twilight is, I believe, out of the quantion,

But we must consider what is meant exactly by the word surrelesson. We can hardly suppose, I think, that the true astronomical rising, or even the apparent many as accelerated by refraction, is here intended. A star would hardly be seen exactly on the horizon even though as bright as Arcturus is and in a clear, pollucid atmosphere like that of Greece. We must, therefore, give it a little margin, and suppose that the word still applies though the star may have reached an apparent altitude of T or 2° above the horizon, but I do not think that a star which had reached an altitude of 4" (equal to eight times the moon's diameter) above the horizon could, even in the loosest way of speaking, he said to rise.

The passage with regard to the Pleiades, to which yest referred me, while it cumot itself be used for determining Hesiod's date, throws, I think, some light on this point, that is to say, with regard to the beight above the horizon at which the star would have been first detected must its rising.

Having computed the position in the sky of Aleyons (the principal star in the Plaindes group) for the year 500 a.c., a star which, being only of the third magnitude, would require a 14° twilight to become visible at all, I calculated its period of invisibility in the latitude of Athens and I find that, in order to account for a period of forty days so Hestod gives, it must have been possible to follow the star down to within about I' of the western horizon, and to pick it up again at the Eastern horizon at about the same altitude. Of course I cannot claim any high degree of precision for this result. but if a star of the third magnitude like Aleyone were vuilble within a degree or two of the horizon it is clear that Arcturus, which is more than ten times as bright, could hardly escape the sums observer within the same limit of altitude.

I have, therefore, not contented myself with merely calculating the times of the true, and apparent, rising of the star, but have also computed the times as which it resolved the altitudes F. F. S., and 4°, although I think that the last in quite immugatible with Hesios's expression if I understand it aright. Also, as there may be some doubt as to Hesiod's latitude, I have computed the times for the latitudes 37 5 and 38 5, and from these, by interpolation, have deduced the results for latitude 55

I may perhaps say that Mr. Pearson's method of calculating the times of rising of the star and setting of the sun in these early days, so given in the paper you sent me, is of a rather rough and ready kind. He makes what he would probably call a hold that at the change in the obliquity of the coliptic, i.e. the change in the relative position of the planes of the Earth's equator and the Earth's orbit, but he does not appear to have taken any account of the shange in the position of the orbit in its own plane, or of the change in the form of the orbit between Hesisel's time and ours. His most of allowing for the procession of the equinoxes, although primitive, is fairly correct, but he has committed a grave error in neglecting altogether the proper motion of the star by virtue of which it has altered its position relatively to the other stars by more than 1 to ju the interval which has elapsed

In computing the following table I have allowed for the various changes enumerated in the last paragraph, calculating from modern tables with all needful precision, that is to say, with all the precision necessary to ensure an accuracy of a minute or so in the computed times. I do not think any of the figures given in my table can be in error by as much as two minutes. They are all expressed in apparent solar time, not much

time, at the place of observation, wherever that may be, so that no question of Hesiod's

longitude comes in.

An examination of the table will show that no date down to 850 s.c. will satisfy
the conditions as I have supposed them to be. For instance, if we take the latitude
of Helicon, about 38° 5, then on the given date, -i.e. sixty days after the Winter
Solution, -the sun reaches a depth of 12° below the horizon at 6° 26°. But in 850 s.c.
the star has reached an altitude of 4° nearly half an hour previously. It had reached
an altitude of 2° no less than forty-six minutes before the 12° twilight legan. Even if
we assume the latitude to have been as low as 37° 5, the time of the star's tising,
allowing it any reasonable margin, will still precede that of a 12° twilight, nor is it
possible, provious to the year 850 s.c., to make the time of the star's appearance follow
that of the sun's reaching 12° below the horizon. Even if the possibility of a brighter
twilight he admitted in order to make the time of star-rise equal to that of the *beginning of darkness' we must suppose the star to have reached an altitude of at least 3°
when spoken of as roung.

I think it is quite clear, therefore, that down to 850 n.c. this star cannot be said to have risen at the beginning of darkness on the 60th day after the Solstice, and if a later year is inadmissible I am afraid the poet's expression cannot be reconciled with the

astronomical facts.

In all this I have assumed that the lifewore is to be taken as exact. The interval alapsed since the Solsties might possibly have been determined with a fair degree of precision, but if the accuracy of this datum is open to question another source of uncertainty is introduced, and I might point out that an error of one day in this alone would bring about as large a change in the time of rising, or of reaching any given altitude, as an error of half a century in the year.

It just occurs to me that, should you think it worth while to get some one in Bosotia or Attica to make observations for you as to the first rising of Arcturus in twilight at the present time, some light might possibly be thrown on this quantian. Such observations should be made during the mouth of March or the early days of April. In the present year (1914) Arcturus will rise on March 13 after the sun has sunk below the horizon to a depth of 18", when total darkness will have begun. On April 2 the star will have reached an altitude of 4" above the harizon before the sun has sunk 6" below it, and so it could not be said any longer to rise in twilight.

All that such an observer need do is to observe accurately the time at which Arcturns is first even in the Eastern sky and the time at which twilight ends on as many days as possible between March 13 and April 2. Assuming we know his geographical position we could then compute the positions of the sun and star with regard to his horizon.

SIXTY DAYS AFTER THE WINTER SOLSTICE.

RISENO OF ARCTURUS

Larmain.	attuda. 272					247			
Didn.	750 a.s.	900 A.I.,	800 a.c.	WAL.	700 A.U.	Ald suc	76 m.	MOAI.	200 p.s.
True Blaing Appt Altimate 1' 2' 3' 4'	5 46 5 25 5 22 5 38 5 48 5 54	5 30 5 20 5 34 5 42 4 50 5 88	5 34 5 39 5 39 5 39 5 39 5 39 6 3	5 27 5 29 5 27 5 35 5 43 5 51	5 27 7 29 5 31 5 39 5 47 0 55	5 32 5 21 5 21 5 43 5 51 5 59	b. 65. 5 20 5 16 6 34 6 32 5 40 5 49	5 38 5 20 5 36 5 45 6 53	1. 19 5 24 5 32 5 40 5 57

SUSSET.

Latinone	974	387	âst."	
Sumset	5 29	5 28	5 27	
	5 30	5 56	5 56	
	6 37	8 27	6 26	
	6 57	6 57	6 57	

NOTE ADDRES LATER.

With regard to the apparent brightness of Arcturus near the horizon and the degree of twilight at which stars of different magnitudes become visible as the twilight lucrouss much valuable information may be obtained from an important paper by Herr J. F. Julius Schmidt, formerly Director of the Royal Observatory, Atheux. The paper is sutified "Unber die Dimmerung" and is published in the Astronomiach Nuchrichten, No. 1465.

for this paper the author gives a table showing the depression of the Sun below the horizon at which stars of the 1st, 2nd, 3rd, 4th, 5th, and 6th magnitudes successively become visible at the zenith, and in another table he exhibits the successive altitudes at which, in consequence of the absorption of light in the atmosphere, the star Arcturus is reduced in brilliance by well defined gradations, entil at an altitude of 1°.2 it appears to him no brighter than a star of the 5th magnitude does at the zenith.

This table would, I think, prove useful to anyone studying the question.

A.A.R.

NOTES ON THE LYCIAN ALPHABET.

§ 1.—The Absence of θ.

On page 68 of the Jahreshefte of the Austrian Archaeological Institute for 1899, Band II., I discussed the value of the letter x, and with considerable besitation decided in favour of Schmidt's opinion that it represents θ. The conclusion was based on the only direct evidence available, namely the rendering of the Persian Mithrapata by the Lycian MEXPPPPTP. This was greatly discounted by the fact that Mithrapata is also rendered by Mizippata (T.A.M. 64), and that Mithra appears also in Lycian Mizietije (84) and the Cilician Mispatos, which rather suggested that the letter was a sibilant closely akin to the Lycian z. It now appears certain that the last conclusion is correct.

- (1) The town of Σίμηνα appears on coins as ∞EBΨN, and ∞EBA[N], with the same change of B into μ as in Τελεμησσός for Telebehi. The identification is cortified by the occurrence on coins marked ∞EBΨ and ∞E² of the same type (dolphin) and symbol (human eye) as on coins of Aperlae (Prelli), a town known to have been confederated with Simena.
- (2) The Greek θ is not rendered by ∞, but by Lycian ⊤ in 'Aθηναίος = atānaz. (T.A.M. i. 44b, 27), and by Ţ in ∃arθίας = kssēnzija (ibid. 150, 1). The inference that Lycian had no equivalent for θ is confirmed by the fact that this letter is only found in five out of about 370 local and personal native proper names preserved in Greek inscriptions in Lycia proper. In a bilingual inscription (25) the Greek word Θρόψες is used to represent the name Crupsse in accordance with a fashion, very prevalent.

2 Op oil al.; - below.

P.M.Cu p. 10.

* References giving a number only are to

It is necessary to exclude districts which were joined to Lyofs at various drive for administrative purposes so Milyas (resily Phrygian, Arrisa, Asadouis, t. 24, 5), part of Cibyrettis (Sturbe, p. 631; Lyoisa was not one of the languages spaken at Cibyra, sold.), part of Caris G.H.S. av. 95; a Carisa inscription exists in this district). In Sundwall, Disconditional Names for Lybiar, names from all these districts, and even from the territory of the Phistian Lague, are quoted as Lycian.

Hill, British Museum Catalogue, Lyde, p. axis.

^{*} Installer Wealtington 2875 and 2872. The same type and symbol appear on Six, Monnaion Lyconomo, 115, where OC EBV should be read for EBVA on AVES.

Washington, Possess on Asic-Minstere, p. 89.

in Asia Minor, for altering native names in such a way as to give them a Greek or partly Greek appearance. So also a Lycian *Oρνεμοτης or *Oρνεμοτης (compare Ορνε-πειμις and Ορνε-ιδασα, and Pisidian Αρσα-μοτης and Οβρι-μοτης*) is changed into Ορνιμυθος so as to give a false suggestion of a Greek compound like πολύμυθος. The name of the town Θρύανδα (St. Byz.) is evidently derived by a false etymology from θρύαν, 'a rush.' The only real exceptions are Berθυς," which is characteristically Thracian, but also Phrygian, and Παναθιατις, feminine, which also probably is borrowed from another district, as it shows a change of consonants which is certainly Phrygian as well as Thracian and Hlyrian, but is quite unknown in Lycia.¹¹

(3) ∞ interchanges with I in MEXPPIPTP = Mizrppata and in VXXXVNP (44b, 58) = Kzzuna (35, 18). Also with s in XIPI for Sppitaza.

The conclusion is almost certain that x is not th but a sibilant closely akin to the Lycian z, and $\bar{1}$ propose that it should be written as a Greek ζ instead of θ . This transcription will be used for the remainder of this article.

§ 2.—The Change of s to h.

Confirmatory evidence of the close connexion of ζ with z is to be found in the fact that both letters share in the tendency of s to be exchanged with h. Thus $\zeta = mmi$ (44b, 44) appears in another epitaph as h = mmi (84, 4) the identity of the words being established by the context: also $\zeta = mmi$ (44a, 18) is probably found as *hartta in the compound proper name hartt-westi (94, 1). So also zkkina (44a, 54) is identical with hkkine (57, 5), and z = mpra (55, 8) probably reappears in the proper name h = mprama (37, 5).

Names quoted without a reference will be found in the ladex to Sundwall, op. et., a work involving great research, excellently carried out.

Surs in Lycia, Zoise it \$3; Accent in Phrygia, C.J.G. 3837 (add.); cf. Tomas-lak. Die alten Thraker, it. 13. No genuins native words in Lycia legin with it.

^{*} In Southern Phrygia, and especially in Lycaonia, where Phrygian was probably spoken, a good number of companied proper names of the older native or Lycian type survived, but in their transmission through Phrygian mouths they often underwent audiflications a willing to Phrygian phonotic laws. Harmfarts is no instance; there is for Tarts (Phrygias), frantminfrom Tarts, whence also Guders and Guder (Januria), just as Gudelass (Phrygias; Kretschiner, Einleibung, p. 2011), also stocker (Lycamia), is from Tarts, Tarts; Compare the Southern Phrygian towns Types or Suses, and Terfu or

Seréa. Compare also the Thrucian -ceréer and -cerrent, -cuéer and Cuties (Tomaschut, Inc. sites Thruker, it, pp. 46 and 51), etc. In all three cases & or & arises from vj., as in Messeplan-Hlyvian Bakefar on a roin of Balatium : also Blateliki, from Blattics, Bistins (Docks, Recounties Museum, vol. axxvii. p. 386), *Lander from *Loudies (p. 391), etc., atc.

In Cilisia, where the names generally follow the same laws as in Lycia, 8 is remarkably rare, and the very few exceptions seem all to be Phrygian. For instance, in the great Coryclin inscription (J. H. S. xv. pp. 348 sepp.) 8 is only found in the Phrygian-Thirnian Refer.

It must not be supposed that either this letter as the Lycian I are phonotic squivalents of the Greek f, which is a double letter, and in Asis Minor arises out of 8. The transmiption f is merely proposed in conformity with z, used in T. A.M. for masons of typegraphical convenience.

The interchange of s and h is well established. In the dialect for which it is safest to adopt the name of Lycian 2,15 the letter h is absentand in some cases has been shown to be replaced by x14. In particular, the adjectival suffix which takes the place of a genitive case,15 -hi in common means, and -h, -he in proper names, appears as -si, -s, and -se (-sa).10 This gives the native Lycian form of the suffix -o- (-oo-), so common in local names in Asia Minor. The city of luminesi, mentioned along with Candyba on the north side of the Xanthian stele," is obviously the turninghi likewise associated with Candyba (as well as arana. Xanthus, and cerestian a town of unknown position) on the east side.19 On the south side the lower Imminchi is associated with sugaba and pittara (Patara).39 It is certain that si (-ht) is a formative suffix and makes part of the name. I cannot doubt therefore that luminosi is identical with Tunnavie, which is cited in Stephanus Byzantinus as a city of Carm, but the derivation of the name from a Xanthian word, and the reference to the Lycian history of Alexander Polyhistor, indicate that Kapias is one of the numerous slips of the epitomist arising out of the next entry, Τύμνος, πόλις Καρίας. It seems to have been really in Lycia."

The identification of tuminesi or tuminesi with Τυμνισσός is confirmed by that of telebehi⁻¹² with Τελμισσός, Τελμησσός, or Τελεμησσός. This is supported by various instances of the interchange of b and m = 2.

This dialect occurs only on the western and part of the northern side of the Xanthian stric (4s, s and d), and on a surrophages at Antiphallus (55): see T. A.M. b p. 45.

The Hoppy, J. Action Studies, is 102; The Hoppy of Sensed (Lyrias 2) with material (Lyrias 1) is proved by a comparison of 44 d, 14, truppy solute) awaling misses manner, with 88, 0, trupps so makes howeded. So also solve (44 d, 12) = simple (6k h, 48); should (44 d, 83) = Aindi (111, 5), etc. Only our word is written with 5, possibly by error (44 u, 54).

This declinable adjectival suffix is commonly termed the 'gentitive' by scholars who have written on Lycian, and their example will here be followed marriy for convenience,

W As atlan (44 d, 47) = utlah (106, 7, etc.); record = eletch ; argupakus (44 d, 57) = urppokuh (44 a, 30); impellus (44 d, 11) = impelluk (44 a, 31); keripami (44 d, 3) = keripah (44 a, 10). See Bagge, op. nil. 1, 67.

44 n. 54, klirbi : tumii-ei.

in 89, mad: uhube conflic halmilah tidaimi. Deresha of Carffl, son of Habmin. The upper and lower extramities of the s are legals on the sast. The tomb is at Camigha. The association with Candylas in the other pursues quoted suggests that the two nities were must together.

3 44 b, 49, ordan s tuminshi s verççi s knobs.
CI 44 b. 54, tominshija s emessija s kārbija s

cumania, which would are closely proceed by order, and followed by article

ptiana Zoroda seems to have been connected at one time with Autiphalina Possibly the apper remassion was mentioned in 44 b, 5, shifts tagmincht he'pzi shifts tagmincht he'pzi shifts tagmincht is secutioned two lines in the mentioned two lines in the mentioned the lines in the lines

This is proved by the derived adjective feareneding, and by the associated names of either which are not in the genitive.

"It does not seem possible to identify terminals with the Toures (nor. for Touress), some Ameias, of Stephanus, which should exteinly be "termina, or "terminas. Nor is it likely that the image coinage with Te- can belong to this rillings; it should be given either to Tymnisous or Tyberisana.

there also the suffix is formative, as is proved by the others to take here on come.

at This form, which approaches negrest to the Lycian, is found as coins as well as in inscriptions. Foliations in Caria was called Takemore's by Aristophanus (St. Byz. a.w.).

As the Serm for Par(Atmet) in a bilingual importation (25), segame for segame on coins and the above montioned Tapper for (No. (a) also Brasider for Managers, Amadems and Amagers in Parysis (Ramay, Cities and Notation, 183).

also by the coinage of telebehi, which points to a city of some importance on the borders of Caria. These indications are borne out both as to importance and position by the mention of telebehi between Pinara and Cadyanda in an inscription at Tles (26, 21). The old identification with the Τηλέφιος δήμος of Stephanus seems untenable is since the spring of Telephus, from which its name was evidently derived, was only seven stades or little over three-quarters of a mile from Patara. It was, therefore, a mere suburb of that town, and cannot have coined distinct money. In that case Τελεμησσός is derived from a form *telebeni for telebehi, like tuminesi for tuminehi. Another example of -hi corresponding to -σοίς is probably found in tuburchi (44b, 15), which may well represent Τυ-βερισσός, a town of Lycia. If so, nagurahi in the same passage should also be a town *Nayopaσσός. Forther examples occur in a list, probably of demes, in an inscription at Tlos (26, 13–15), among which are minutahi and haqadaurche.

If the suffix erosis, to which such great importance has been attached, is represented in its native form by -hi in ordinary Lycian (Lycian 1), and by -si in Lycian 2, it becomes an interesting question which dialect is the older: for though the change of s to h may appear in itself the more probable, the reverse is perfectly possible. The date of the monuments affords no evidence on this point. On the Xanthian stell the two dialects are used concurrently, though the part written in Lycian 2 was actually engraved after the rest; while the tomb at Antiphellus must from the lettering belong to the same period, a little before or after B.C. 400. Epitaphs are found in Lycian 1 both considerably earlier, as 77, and much later, as 6.

There are, however, some grounds for supposing Lycian 2 to be the more archaic dialect. First, its very frequent use of t instead of the usual

Column of the dynast critism and defended belongs to this city, as well as that with the even name, forming a comparatively large arries (Best. Mos. Cat. Lycia, p. xl.). The letters or in the Carino alphabet appear on a cone of erobles.

"Sundwall, who afforms to the edger theory, maintaine, p. 102, that deems could commoney, but his argument is based on a misapprenension. He quotes generally Ramssy, Cities and Bisheprice, i. chapter 3, but the references there are to the Sames of the Ephemisms (p. 107, note 5) and the Sames of fiftenpolis (p. 109), which have no more analogy to the Talapses Sames than the Sames of Athensias to the Sames of Commisms. At the same time it is quite probable that Telephim either was, or was identified with, a matter here of their at a very saily date. If se, the town of Telebeht, as well as the stems of Patara, pro-

bully derived its name from him, on the analogy of other local names mentioned in the aust note. This would account for the appearance of his father Hersche on its coins.

The name is durived from TeoSeper, a mative hure, brother of Termeria (Si. Byz. R.) YAnno). Men seem to have been named after him "faburi, genitles tubures 144 s. 55, 57, sto.), dative probably fashers (69, 2). Other names of towns are derived from gods or herom, with the same suffix, as Narerede (from the godding Natus), Kalassparo's (from the tiere Kuhaspan, P. H.G. (v. 428) | also from personal proper pames, as Tausarros from Penent, Zoco Amonde from ZaBakas, and many others. So with other enfliges; Redourds from Kedoens, Kolyane from Kolone, 'Apraile from 'Aprail, ale ... wite. This formation with a auffix from personal proper names, divine or human, some to be usual, if mot invariable in the case of towns in Lyolan and the silied languages.

r (as thi = chi, thisu = chihu, &c.) is certainly older in the case of the ordinary Lycian coatra, daughter, which either is, or is borrowed from, an Indo-European word represented in Greek by θυγάτηρ, and indicates an earlier *tbatra. Secondly, though h is practically completely absent in Lycian 2, s is by no means regularly replaced by h in Lycian 1, but only in certain positions. Initial s before a consenant, common enough in Lycian 2, is elsewhere only found in certain personal proper names, and in three or four words borrowed from the Greek; otherwise it only appears in one word of unknown significance." Again, intervocalic s, except in personal proper names, is of extreme rarity in Lycian 1 after a, and still more after e,20 though not unusual after w or a. This apparently transitional condition still prevails in the latest known inscriptions of about R.C. 300. perhaps a century later than those written in Lycian 2. It is not probable that a change of h into s was already complete in Lycian 2, which was still only partial in Lycian I at a much later date. It is far more likely that a change of s into h had begun in Lycian 1, and that Lycian 2 was a more archaic dialect which had not been affected by it.

On this supposition it is easy to explain the survival in personal proper names of such archaisms as interrocalic s after a and s, and initial s before consonants. It was a very general custom in Asia Minor to name a child after his grandfather, which would necessarily preserve old forms, just as modern surnames, being hereditary, often perpetuate disused pronunciations like Gould or Bartram.

It is therefore highly probable that the forms tunniness and *telebess are older than tunniness and telebess, and that the -σ- in Τυμμασός and Τελμασός represents an original native s. The very close contact of the Grocks with Lycia even in the time of Homer readily accounts for their adoption of the more ancient forms. When the country became hellenised Grock names entirely prevailed over the native, even in such cases as Xanthus and Antiphellus, where they were altogether different, and thus the -σ- suffix was re-established in places where it had for some time been disused.

This conclusion as to the priority of -s- to -h- is inconsistent with a recent attempt to identify the Lycian with the Carian genitive. Dr. Sundwall connects the Lycian -h with a supposed Carian genitive in $-\kappa^{-s}$. The letter \oplus , which he renders by κ , is considered to be a vowel both by Sayce

^{35 44} b, 62, sheride. In 107, 1, s(r) intil should be read.

W For example, in the part of the Xanthian stells written in Lycian 1, apart from proper names, it is only found in our word after c, and is one word (preliably from the same stem) after a.

²⁴ This conservation in personal names is not constant; thus from the common some

Admins is formed Administrace as well as the archaic absonce. It sometimes happens that later Greek inscriptions preserve the other form, where the Lycian inscriptions give the newer; as Occodes compared with stable, Occodes compared with stable, Occodes compared with stable.

m Zu den kartischen Inschriften, Kliss, vol., vo. pp. 464 way.

(who renders it by n) and by Kretschmer, sor sufficient reasons. In the Transactions of the Society of Biblical Archaeology, vol. ix. Pl. II., the same name is written as ukhove in No. 11 and ukh⊕es in No. 20. Another name (if Professor Sayce's transliteration is followed) appears in No. 25 as var(u)oss, but in No. 24 as var(u)oss. Sundwall so does not hesitate to emend the ⊕ in both names into ⊙ on pure conjecture, being convinced on other grounds that the letter is a guttural. His grounds are that he finds four other Carian genitives ending in a guttural; that there are already enough vowels in the language; and that a certain name beginning with m(e)⊕n certainly belongs to the same stem as m(i)guto and others beginning with m(e)g- and makes. Stronger arguments would be required to justify the alteration of the text in two distinct inscriptions. There is no reason to doubt that the letter is a vowel.

Nor can any support to Sundwall's theory be derived from a supposed Lycian genitive in x.36 The letter & appears in two archaic inscriptions (106 and 128) as a variant of c (Lycian K). The same sign is found in three later inscriptions after proper names. In two of these it follows names in the genitive, which are already provided with the usual genitive suffix -h. Thus, in 54, kudalije-murazah & tidefimi] is identical with kudalije muritah tideimi in 72: the sign occurs twice besides in 54, and once in 149, used in a similar way,37. In these cases it cannot be said that it is, but only that it follows, a genitive, since the suffix is complete without it. In 69, however, it follows a different case: here we find i preside 👌 arthpa 💠 tideimi tubure o. Since tideimi, son, cannot possibly be genitive, but must here be either nominative or dative," the other words cannot all be genitives, nor is there any reason to think them so, as the genitive suffix It is not present here as it is in 54 and 149. It is, in fact, almost certain that one of the names must be in apposition to tidesmi, and therefore either nominative or dative 30 There is to my mind no doubt that here, also, the

^{**} Endousny, p. 582. I have followed. Sayer's transformation as given in vol. in of T.S. E. A. for convenience of reference. Some dight alterations adopted in vol. zvvill. do not affect the present argument.

[&]quot; Cpr. cif. p. 466.

The supposed final 2 is Sayes, 12.10, 25, is probably the first letter of a different (Phoenician) gmilito. There is nothing to show that the word ending in y in Sayes, T.S.E.A. xvii. 1. 1, is a genitive while that in ix iv. 11 appears from comparison with 20 to be incompleted it is also improbable that the letter is really g. In ix. ii. 3, the base of a bronze Apis bears there is criptions written by three different men, since the two in Carina are not alike to lettering and the proper name is the hieroglyphic does not recur in either. There fore saturdes is Apis, and semichele is the dedicator's name in the nominative. It is very dombtful if the letter A is a correct trans-

iteration.

²⁰ Op. viii. p. 466, and Die einbeimischen Names, p. 38.

A termination in As is very extraordinary in Lycian, where no final community are permissible except - and A: moreover c, of which - is a variant, cannot follow snother consensus.

[&]quot;An accumative would only be possible in the dedication of a statue, but this is a rocktions. The genitive of elderms would be "rades make; therefore there can be no question of the dropping of a final. A, such as somatimes occurs in proper causes (in 61, 127, 145, and 5), and may possibly be found here in arriges.

The Sandwall does not deny that the word toleron as it stands in the best is incommended with his theory, but he once more has recomes to emendation: "would ame Vernoteen but man as unterlaises aunh die Apposition tidelmi su doclinium," (Die stakeinnecken Names der Lykies, p. 18).

sign φ follows the case-suffix, which is complete without it: so that tubure is the dative of a proper name *tuburi, of which the correct genitive in Lycian 2 appears as tuburiz (44c, 53, etc.). The meaning, therefore, is 'Ipresida (nominative) for Armpa (and) son Tuburi,' which may be compared with έαυτῶι καὶ τῆι γυναικὶ καὶ υίδα Πυβιάληι (tulcimi pubiclaje) in the bilingual epitaph 119: or possibly 'Ipresida (son) of Armpa for (his) son Tuburi.' In any case the sign in question cannot represent a case-ending.

There is, therefore, no evidence of the existence of a genitive in -x common to Lycian and Carian, and consequently no reason to derive the suffix -h from an earlier guttural, On the contrary the Lycian -h- (or more correctly -ahi, -chi), which forms possessive, patronymic, and ethnic adjectives, almost certainly represents an earlier -axi, -axi, and this is the true native form of the suffix -accord, -ncords, &c., which appears so commonly in the Greek version of local names.

W. ARRWRIGHT.

wurde which it follows is that they are all personal proper names. It might therefore be analogous to the suffix of mentioned in the propelling nate. Since however a termination in the seems impossible. It is more probably a detached symbol, originally perhaps an initial or abbreviation, indicating the rank or position of the person named, on the analogy of George R., etc.

Extremes a contention (Einfelding, p. 380) that there was a Carian genitive in Sc is of course not incommutant with the derivation of the similar Lycian suffix from an earlier suffix incline, however, to believe that the Carian letter which is remited by & is really a .

For tubers (=Tandepas) see above, p. 14, note L. Personal proper names may make a dative in -a and -e, as some other substantives do they do not appear to make a dative in 1. More usually -r is suffixed, joined by the letter -y-, so that the byparal dative of pursonal names is to u-y-s or e-y-. So also their gasitive is very rarely in -ohe (*-shi) as in common usual, but normally either in -oh, -ch (by apocope for ohe, -ch), or -e is suffixed, making -sh-s, -ch e-tring-a suffix, added to the genitive and dative ringular, is not a -she emiling, but a distinguishing mask of personal proper names, in which alone it is found.

[&]quot; The only common characteristic of the

EUPHRONIOS AND HIS COLLEAGUES!

[PLATE IV.]

The Euphromos problem is more than twenty years old: in 1893, Hartwig, in his Meisterschalen, first attributed to the painter «Ones»inus the Trollos kylix in Perugia bearing the single signature Euopoonos ἐποίησεν. Since then the question has been considerably extended and modified, and the moment has perhaps come for some sort of summary of results.

The attempted answer to the particular question does not profess to be a solution of the whole problem of έγραψει and ἐποίησεν. Dispassionate analysis of style tends more and more to separate potter from painter in most well-known workshops. Makron was in all probability directly or indirectly responsible for the painting of all Hieron's vases. Brygos a potter solely. It is, however, impossible to generalise on the subject. In the black-figure period there is the notable exception of Exekias: there is no difference of style between the vases signed Έξθκιας ἐποίησεν and Έξθκιας ἐγραψε κάποίησεν με. Again in the strong red-figured period we have the instance of the Gotha kylix (F.R.H. iii. Abb. 7), with its inscriptions ασταδες (retrograde) and a dubious inscription ending εσεν (left to right)—i.e. a potter's signature. The painter's name is clearly that of Pasiades, the style of the exterior ammistakeably that of his other vases; * but these are signed with ἐποίησεν. Here, then, is a contemporary of Euphronics whose ἐποίησεν includes ἔγραψεν.

Nor was the relation of potter to painter the same in every case. Sometimes the one, sometimes the other, was the dominant partner; for we may conclude that where a signature occurs constantly alone, and rarely in conjunction with other names, the potter or painter in question was his own master, and gave his name, so to speak to the firm. Hieron is an instance of a potter, Duris of a painter in this capacity. Clearly, in the former case, the potter's name was of most account, since so eminent an artist as his colleague Makron only signed one of his many paintings. Of Duris signed vases, on the other hand, only five bear other potter's names, and one, it is

¹ wish to thank especially M. Pottier, Dr. Zahn, and Dr. Sieveking for facilities afforded to me in the Louvre, the Berlin and Manich.

Museumis.

^{*} The interior appears to be by Porthinos.

expressly stated, he made himself. The evidence of style and that of the favourites names forbid us to regard all these five as early works painted by Duris for other and independent potters; rather we must suppose him to have been throughout his own master, with potters working under him.

In the case of Euphronies, it is most probable that the vases signed with eypa\psi ver were painted for independent potters. The coupling of his name with that of Chachrylion, a potter of some standing and senior to Euphronies, and the probable attribution to the latter's brush of the beautiful Patrokles kylix made by Sosias, point to this conclusion.

The Signed Vases of Euphronies and their Dating.

The vases, fourteen in number, which bear the name of Euphronios, followed by Pipawer or Indiagrap, form at the same time the most fascinating and the most problematic series in the history of signed vases. They are by no means of equal merit, but none are without interest, and all of skilled workmanship. The modification of the style, and the marked technical advance make it certain that the series covers a considerable period, and enable us to conjecture with some certainty the relative dates of their production. The evidence of the favourites' names, known to us from sources outside this cycle, corroborates that of style.

But the question of dating cannot be dissociated from the more difficult question of authorship first raised by Hartwig with regard to the Troiles kylix and again with a wider application by Furtwangler. Was Euphronios the most versatile of the vase-painters ! Or are versatility and a long life sufficient explanations of such differences in style and technique as are apparent between the works of his supposed first and second periods? Or was the painter Euphronies the author only of the group of works actually signed exparter (unquestionably the earliest of the series), the painter who at least once in his early days was associated with a potter of the severe style, Chachrylion ! If so, it is natural to suppose that he was at first a pointer attached in all likelihood to the workshop of Chachrylion, and set up in later life a workshop of his own, employing various artists to paint his vases, for there is as much divergence between certain vases with the emointer signature as between any of these and the vases signed with Spayer. Happily or unhappily, there is, as usual in problems of vasepainting, no external evidence of any weight; it is on the internal evidence of style alone that any argument can be based.

The period covered by the vases in question appears to be one of about forty years, the dates being fairly accurately fixed by the favourites' names employed. The Antaios krater and the Geryon kylix both bear the inscription Aέaypos καλός, while close to one of the hetairal of the Petrograd psykter are the words τιν τάνδε λατάσσω Λέαγρε. These three vases, together with two fragmentary ones, on which no such names remain, are from their style the earliest of the series; in the case of the three just named the presence of the name Leagres leaves no room for doubt, for there

seems every reason to identify this Leagres with the στρατηγός of that name, killed in 467.* The name occurs further on another vase of the potter Chachrylion, on one by Oltos and Euxitheos, on a series of unaigned works of the severe r.-f. style, and even on a few of the b.-f. Thus the beginning of Euphronios' career is fixed at the first few years of the fifth century, a 500–480 a.c.

Of the remaining vases, all signed Eûφρόνιος ἐποίησεν, two bear the name of Panaitios, two that of Lykos, and one that of Glankon. The first is found also an several unsigned vases, as well as on one by Duris. The two kylikes of Euphronios, the B.M. Eurystheus and the Boston komos kylikes, appear somewhat later in date than the Leagros group, but have not the technical case of the Perugia or Berlin kylix. They form, with two others, a group of very distinct style.

The name Lykos is found on a number of vases of the most advanced strong style, all unsigned but the two kylikes from Euphronios workshop, namely the Perugia Troiles kylix, and that of the horsemen in Berlin, which bears, besides the signature of Euphronios, that of a painter, Onesimos. In the latter case the name of Lykos is combined with that of Erothemis, elsewhere unknown.

The Berlin polychrome kylix, the latest of the extant signed vases of Euphronios, has the inscription Υλαύκων καλός. The Glaukon referred to here and on several unsigned vases, notably the beautiful Aphrodite kylix (D 2) of the British Museum, must be the Glaukon who was a son of Leagres and himself a commander in the year 433. The identification is confirmed by three unsigned vases with the inscription Γλαύκων καλός Λεώγρου.

With some rough idea of the dating of the Euphronian series, it becomes easier to examine the different groups just distinguished, and to see what light may be thrown on the vexed question of authorship. Let us first try to define the style of the group distinguished by the Eypayer signature, and certain other works which there is reason to associate with it, leaving the rest of the series and its attendant problems till later.

EUPHRONIOS AS PAINTER.

The Signed Vases,

The selection which chance has made from among the paintings of Euphronies is happily varied. The three complete vases bearing the signature Eèchpônies éypayer are the Antaios kratar in the Louvre, the psykter in Petrograd, and the Geryon kylix in Munich; to these must be added the Acropolis kylix fragments representing the marriage of Peleus and

² Hartwig, Ment. p. 2, and Klein, Zietl' p.

The most planable completion of the name, of which only the last four letters are estually examt.

⁶ H. f. lokyrimi in Ashmolaan (320) and Athens N.M. (1645, Cal. 1125), and white lekythes in Bonn.

^{*} F.R. Tafein wz-3, 88, and

The differences of size and shape alone have given to these vases a great variety of composition; the pedimental designs of the krater, the rich full composition of the kylix, the well spaced figures of the psykter. Add to this diversity of subject, from genre to heroic legend, and a large repertoire of figures, male and female, nude and draped. With so wide a basis for comparison, it is possible to form a fairly complete idea of Euphronics style, and to add to the list of his paintings a considerable variety of unsigned vases.

To lovers of the archaic these early works of Euphronios will probably always be the most satisfying of Greek vases. The traditions of black-figured painting are not long left behind, the influence of the early artists of the red-figured style is still predominant; but we are face to face for the first time with a real master of the new style, an artist independent in fancy, free from mannerism, the herald of a new generation. The influence of Euthymodes is easy to recognise. There is no doubt that the two artists worked simultaneously for some part of their careers: Euthymodes' triumphant on observer Euthpoints is the confession of an older painter's jealousy for the growing fame of a young rival. The work of Euthymodes thus signalised is indeed among his very best, but it is easily surpassed by any one of the vases painted by Euphronios, whose keen untrammelled imagination proclaims the true artist, and whose sense of composition far exceeds that of any of his predecessors, and is rarely paralleled among his contemporaries or successors.

The Antaios Krater.

The Antaios krater, probably the earliest of Euphronios' extant works, strikes the keynote of his style, the individualisation or power to seize the essential of a character or episode, a faculty which gives to his compositions a reality to which these of Euthymides with all their mannered insistence never attained. Nothing could be better, more calculated to hold the imagination, than the grim strength of Herakles' struggle with the monstrous Antaios, while the grant's womenfolk fly in terror to right and left. The frontal torse of Antaios is an excellent piece of drawing; the muscles, shown on this large scale with great exactness, are of particular value in the detailed analysis of Euphronics' style. Most noticeable is the careful drawing of hands and feet, a point in which Euphronice excels any other painter; the best example in this wase is the upturned right hand of Antaios.

The Petrograd Psykter.

The same is apparent in the Petrograd psykter. Here we may note also the type of female head characteristic of Euphronios, the long straight line of the forehead and nose, the symmetrical fringe of hair framing the face, the small well modelled chin. The psykter is of special interest for its fine

Jahrb. 1881, Taf. 2, and A.M. 1882, p. 105.
 Amphora in Munich (2307 < 378 >).

See Fig. L.

attack on a difficult subject. The nude female figure, though not excluded from vase-painting of this date is as from contemporary sculpture, is yet by no means common. Euphronius has chosen to represent a series of four perfectly nude figures and has successed in making them beautiful. The various reclining attitudes are full of grace, the lines of the figure round and plastic. The obvious comparison of the vase with the Ludovisi Throne indeed speaks for itself. The style is similar throughout, but the fluting figure (\$\Sec\lambda_{\text{ex}\lambda_{\text{if}\eta}}\$) is almost identical with that of the side-piece of the "throne." Here we have the same position of the girl leaning against a cushion, the raised knee, both hands engaged with the flute, the wavy fringe

of hair below the head-dress, the same delightful profile contour.

It is worth while to consider the meaning of this likeness. The hetaim of the Ludovisi relief is unique, being (so far as I know) the only nude female figure in classical sculpture before the fourth century. It is startling, the enly time that such a figure does occur, to find it exactly paralleled in painting. As to the relative dates of the two works there can be no doubt: the wase cannot be placed later than 490 B.C., the relief not earlier (most anthorities place it later) than 470. The type here clearly originated in vasepainting and it was the sculptor who took it over ready-made. Nor is the reason far to seek. Genre scenes being practically unknown, outside the special class of grave reliefs we are not likely to find in sculpture such a figure as that of the hetairs who figures so freely in the banquet scenes of the vase-painters; nor was any goddess or heroine ever represented nude until Praxiteles created his Aphrodite. Even then the people of Cos, we understand from Pliny, were shocked at the innovation, and rejected the statue immortalised thereafter as the Cnidian in favour of one draped. The unde woman is only there for a special significance. The scuiptor wished to portray two types of Aphrodite-worship, and did so with a Greek's Incid symbolism by carving on one side a bride, on the other a betairs. The latter figure he borrowed from the studio of the vase-painter.

The Geryon Kylix.

The style of Euphronies is perhaps best illustrated in the fine kylix in Munich (3620<337>), representing the contest of Herakles with Geryon. It has close affinities with the Antaics krater, which are only partially obscured by the difference of treatment inherent in that of shape; but Euphronies is here completely emancipated from the earlier tradition, and not a figure of the kylix could be attributed to Euthymides. The composition is far in advance of anything hitherto produced by a ceramic artist. It falls into two groups on one side Herakles and the triple Geryon, with the

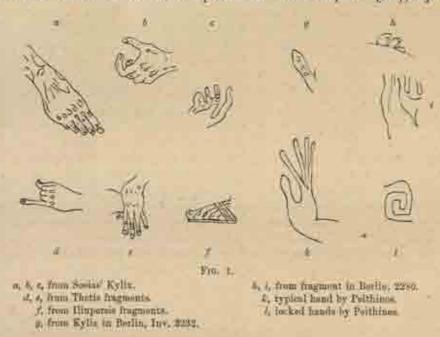
Of in particular the hydria of Eathymides, or Phintias (so Hoppin, Eathy-mides, p. 16, and Sicroking, in his Fahrer), in Manich, (2421 c6>), Klein, Esphranco, p.

If follow without hesitation the interpretation of the Throne as some kind of monument to Aphrolite, the central slab representing hir birth from the water.

persons immediately concerned in the fight, on the other a dignified prooession of warriors with Geryon's oxen. The balance is admirable, and there is at the same time great variety in the figures. Euphronios' vivid imagination has given a snake's head to the tail of Geryon's double-headed hound. Another fanciful touch is the neat plaining of the tails of the solemn oxen. The interior of the kylix is filled by a demure little horseman in a rich chlamys, probably the καλὸς Λέπγρος himself, and the first of a series of equestrian figures similarly used.

The Thetis Fragments and the Patrokles Kylix of Sosias

There remain the kylix fragments from the Acropolis.12 The style leaves no doubt as to the completion of the inscription [Eudpow]los.



expandores. The fragments, which represent the marriage of Peleus and Thetis, are closely allied in style to the Geryon kylix, but their most remarkable analogies are with the kylix signed by the potter Sosias in Berlin. The interior of Sosias' kylix shows Achilles binding up the arm of the wounded Patroklos, the exterior the entry of Herakles into Olympus with a whole cortige of detties. It is in the latter that the analogy with the Thetie fragments is most apparent. The drapery is exactly similar in the two works; especially noticeable is the peculiar kolpos, tightly clinging with a crinkled edge which occurs also on the Antaios krater, and seems to have

Not known to Kinin, Johré, 1888, Taf. 2. (2 F. R. H. Taf. 128, and A.M. 1882, p. 105.

been borrowed from Euthymides. The interior is of far more interest and beauty than either the exterior or the Thetis fragments but re-semblances to the latter are not far to seek. The hand of Achilles is treated in exactly the same way as that of Pelens. The drawing in both cases is remarkable. as is that of the foot, similarly treated, of Patroklos.11

There is good reason to attribute the painting of Sosias' kylix to Emphronies.18 Apart from remarkable resemblances in detail, there is behind the execution a quality of mind which we recognised as characteristic of Euphronios, the sensitiveness of genius, which is quick to catch the feeling underlying an incident and able to express it through any degree of technical limitation. It is this that gives peculiar charm to the group of the interior. The whole scene is full of vivid touches and delicate feeling as in the boarded Patroklos turning his head away from Achilles, while he rests one thumb on the bandage to help him, in the very youthful face and figure of Achilles, and his complete concentration on his task. We cannot but feel the same imagination at work that conceived the grim determination of the Antaios krater, or the irresponsible gaiety of the Petrograd psykter.

The Hinpersis Framments

Another set of kylix fragments must be noticed here, those of the Hospersia in Berlin (2281)16 which, though they bear a mutilated name, vertainly to be completed as that of Euphronios, are none the less problematic; since the determining word of the signature is lost. The interior of the kylix represented the minder of Astyanax; the figure of Neoptolemos is completely lost, but a large part of that of Astyanax remains. He is seen fullface, according to a common convention in scenes of this kind," and the head

14 See Fig. 1 for drawings of humbs and fact in Emphronias' style.

" So Hamer in his publication of it in F.R.H., though he dose not commit himself definitely. Furtwangler's attribution to Polithime is intenside. A glance at the two kylikes, that of Seeins and that of Polithinus, which stand ald by side in the Berlin Museum (Nos. 2278, 2279), shows that the latter is as affected as the former is sincery, its line very weak in comparison. Poithless' vemarkably had drawing of the hand alone (Fig. 1, 4, 7) would disprove the attribution Hartwig's case for Smins as painter is not band on style and is measuringing, particularly as he instances as a parallel Brygos, who may never have painted a fine. The little plate (Berlin 215), also signed by Socias, is imagnificant, but the drawing is good and may quite well be by Euphrenics too.

The very remarkable diswing of the eye an the

does not affect the question of authorship. It is an apprough to accuracy, unique at this date, which Euphronies may have chanced on an sell or ampthor.

4 d.Z. 1882, Tal. 3. Inamiptions is - p. and or, the latter, to judge from the spacing, belonging to an isolated sakes.

" Of. Skiron in Duris' Thesens kylix (B.M. E 45), Karkyon in Empleronies' Louves kylin. Troilin in the Porugis Eylly, Kaluous and a Lapith in a kajobe in the British Museum (E \$75), etc. The record for the convention lies in the difference of expression which this position imparts to the face. There is no attempt to runder sutual pain or fear (the face of Troilos in the Perugis kylir is a restoration. Spearing, Childhood of Art, note on p. 489), but the very rurity of the full face serves to focus the ettention on it, and reserves to it, as it were, a character other than that of the normal profile.

interior and once on the exterior 🐨 😿



in this position recalls that of the full-face hetairs in the Petrograd psykter, though differing from it slightly in shape. The type of head throughout resembles that in the works of Euphronios already discussed, and more especially in the Patroklos kylix, although a slight difference is apparent in the face profile. The nose is slightly heavier and projects more in contrast with the straight line of nose and forchead in the foregoing works.



- o, b, from Petrograd payhter.
 - z, Macual from kylix in Berlin, Inv. 3232.
 - d, Astyanas from Hispavais fragments.
- *, f. profiles from Hupersis fragments.
- g, Aphrodite from Sosiae kylix
- & 4, Amazona from kylix in British Museum, E 45.

It is however not of the type found in any of the vases bearing Euphronios' signature as potter. The hands and feet are for the most part unusually careless, but Euphronios' brush is betrayed in the beautiful drawing of the foot below the $\Delta i \delta r$ is post of the interior. The style seems to point to a late work, probably the latest extant, of Euphronios' own painting.

The Averso Vase; Smikros and Euphronics.

To this category must be added a few unsigned vases, notably the famous Amazon krater at Arezzo.20 The style of this work and the inscription Ecrop rator " place it unmistakeably at the beginning of the 'strong' red-figure period. A second inscription on which much discussion has been expended immortalises the unique name of Φιλλιαδές. The style of this magnificent vase is so close to that of the works discussed above, that it would in all probability have been definitely assigned to Euphronies, and much controversy avoided, were it not for an amphora in the Louvre (G 107) so obviously connected with it that it cannot be excluded from the discussion. This wase has on one side the single figure of Herakles, on the other an Amazon. The figure of Herakles is almost exactly paralleled on the Arezzo krater, while the figure of the Amazon is identical in attitude with one on that work, even to the curious twist of the leg and the sole of the foot thereby revealed. The pattern on the neck is also the same as on the krater. The Louvre amphora is a clear case of borrowing, a very rare phenomenon in Greek vase-painting. There is no attempt at composition, and the figures are unmistakeably taken straight from a good vase to beautify an inferior one. Apart from this it would be of little interest but for an inscription which seems to defy rational interpretation. It reads \(\Delta \text{OKE} \) : EMIKOI: INAI, and is commonly agreed to have some reference to the painter Smikros, a contemporary of Euphronics of whose work only two specimens are extant.23 The question is set forth at length by Furtwangler,14 and a brief recapitulation of the theories advanced will suffice here. The inscription may be rendered 'it looks like the work of Smikros' and interpreted as an acknowledgement of plagiarism or 'it has the approval of Smikros' (understanding eb). A third rendering, still less convincing, supposes a query: δοκεί Σμίκρος είναι; What does Smikros think of it? According to these interpretations, the Arezzo case would be the work of Smikros,26 the Louvre vase either that of a proud pupil or a confessed plagiarist. It is not necessary to suppose either. We may accept, faute de miena, the rendering in which 'Smikros approves,' and suppose the inscription addressed by the author of both vases not to a rival or even a master, but (to give the Ceramicus its due) to a friend.

Whother or no because Smikros approved the painter was sufficiently pleased with his Amazon to repeat or allow her to be repeated not once but three times. A second amphora in the Louvre (G 106) has on each side an Amazon of inferior workmanship but of exactly the same style. This vasc

[&]quot; F.R. Tal. 51-2

[#] Xenon occurs on a psykter in the style of Phintiss (Hauser in Jakes, p. 168).

[&]quot; Mor. Pict, iz. Figs. 6 and 8.

Stammes in Brussels (Mos. Post, ix. PH. 2-3) and stammes in R.M. (E 438).

at F.R. B. p. T fall.

So Gaspar, Men. Piot, ix p. 15.

[&]quot;Furtwangler admits that it may be by Exphronius.

^{*} See Pottier, Lourn Cat. p. 946, for this valuable midition to the discussion.

bears the simple inscription: Eύφρόνιος. An instance of an isolated name denoting authorship is found in the workshop of Duris, where three kylikes (Klein's 10, 13 and 14) are inscribed with the name of Python on the foot. In the present case, whatever may be the exact significance of the name, it is a link between Euphromos and the Arezzo vase, confirming the evidence of the style.

The same, or nearly the same, Amazon is repeated yet again on a kylix apparently lost, but known to Braun. Here the familiar figure is striding over a fallen comrade; but her attitude, again with a twist of the leg revealing the sole of the foot, is identical with that already described with reference to the figures on the Arezzo and Louvre vases. An inscription in the field

gives the name of Euphronics' favourite Leagres.

To return then to the Arezzo Amazonomachia, the problematic inscription of the Louvre amphora is no argument against Euphronics. As to the style there can hardly be two opinions, there is no particular resemblance to that of Smikros as we know it, but there is the closest resemblance to that of Euphronics. Furtwangler pointed out, and M. Gaspar himself admitted, remarkable analogies with the Antaics krater and Geryon kylix. The elaborate lotus and palmette pattern on the neck of the Arezzo case is identical with that on the neck of the Louvre amphora and below the subject on the Antaics krater. Another detail serving together with the pattern as a kind of trade mark, is the curious quiver found on all three works. We may notice also that the eye is drawn in exactly the same way, half closed to express pain, in the two wounded combatants. Antaics and the fallen Amazon.

In the Geryon kylix we find no less remarkable parallels not only in the detail, (notably the similar treatment of the head and helinet, and of the musculature, the common shield devices), but in the composition. The two Amazons striding forward and darting their spears at Herakles form a group almost identical with that of Herakles encountering Geryon. The fallen Kydoime' corresponds very nearly to Enrytion, and the attitude of Herakles is identical in the two scenes. The style is broader than that of the Geryon kylix, but exactly what we should imagine in a larger work of Euphronios, had no such work remained to us. As it is the more elaborate details (the eye-lashes, the embossed hair) which we find here, and which are not appropriate to the finer scale of a kylix, are all paralleled on Euphronios largest signed vase, the Antaios krater.

Berlin Fragment (2181).

In this connexion may be noted a fragment of a stamnos in Berlin (2181, unpublished), representing two pairs of combatants. There is nothing

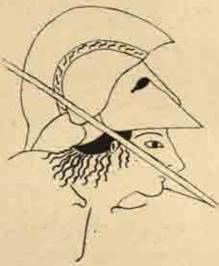
[&]quot; This was and the next may be the work of a copyint.

Throwler in the Apparel des Bon, Lest.

reproduced by Klein, Linkl. p. 73, Fig. 13.

Three out of six in each: the lion, the kautharos, and the gorgonelon.

to tell us who these represent, but that they are the male counterparts of the Arczzo Amazons a single sketch " will suffice to show. There can be no doubt as to the Euphronian origin of the fragment.



Fm. So, Warring from stammes fragment in Berlin, 2181.



Fig. 26, American from Arrest kinter.

Other Attributions.

A few other unsigned works in the style of Euphronios may be briefly noted here. Of the various vases bearing the favourite's name Epidromos two at least belong to this category. So

That a vase bearing this name may date

from Expironies early days is proved by the conjunction on a kylix | A.Z. 1885, Tot. 19, 2) of the names Epidromos and League.

[&]quot; Fig. 8. I had intended to publish, by the Zahn's permission, the whole fragment, but am prevented by the present circumstances.

Boston Kylix.

One of these, new in Boston, 30 was attributed to Euphronics by Hartwig. The interior represents two symposiusts both scated, one vigorously fluting. The group is well composed, and the left hand figure, sitting with his legs drawn up, recalls the Patroklos of the Sosias kylix. The heads might well be by Euphronics, and the careful drawing of a frontal foot is quite in his style.³⁰

Berlin Kyliz (Inv. 3232).

The second Epidromos kylix is one in Berlin (Lev. 3232, not in Furt-wängler's Catalogue). Of its three designs, the most interesting is that of a beautiful sleeping Masnad surprised by a Sellenes. The modelling of the nude figure with its curved contours and its few skilful interior lines recalls that of the Petrograd psykter; the Masnad's head closely resembles those of the hetairai. The Herakles who, with a Seilenes, is making a sacrifice at an altar on the interior of the kylix, is the three familiar type of the Geryon scene. The second scene of the exterior, Herakles capturing Kerberos, is too much damaged for analysis. One fanciful touch, however, at once suggests Euphronics: the feet of Kerberos are armed, like the tail of the hound in the Geryon kylix, with snakes. The Berlin kylix is a charming work, and the sleeping Masnad a figure of exceptional beauty and worthy of Euphromios, to whom the kylix must doubtless be attributed.

B.M. Kylin E 45.

Another kylix rightly ascribed by Hartwig to Euphronies is the Amazon kylix in the British Museum (E 45). The Amazons here are a slightly later variant on the Arezzo type, Herakles is the same as usual, and the head of Hippolyte bears the closest possible resemblance to one in the Iliupersis fragments. The B.M. kylix may indeed serve as a link between the Iliupersis and other works of Euphronies, if any doubt exists that the Iliupersis is of his own painting.

Berlin Fragment 2280.

Lastly let us note a fragment in Berlin (2280), with two warriors engaging over a shield, of such excellent workmanship as to make us tegret

1; y. Historig Mass. Tel. 15. See Fig. 2, b. s. for drawings of heads.

[&]quot; So Mr. Beatley tells no. Harring, Meist.

⁵⁴ The reproduction is bad, but there are indications of more detail in the foot (as moral with Emphronics) their it actually shows.

^{*} Jakrb. 1893, Taf. 2

is See Fig. 2. Cf. also the thumb of the Seilenna with other hands by Emphronies, Fig.

Hartwig, Meist. Tal. 24, 2, where it is attributed on very unsubstantial evidence to Politices. The bands again we sufficient disproof.

the loss of the kylix to which it belonged. The sureness of line and the care in the drawing of the hands 25 reveal Euphronics, and the breastplate with its scale and macander pattern recalls that of Patroklos in the 'Sosias kylix.'

Summary of Euphronius' Style,

The foregoing works are ample ground for a survey of Euphronios' style as a painter. We have noted his strong sense of composition, the skilful adaptation of his designs to various shapes, above all the fineness of feeling which underlies his whole work. He has the virility of the older masters without their exaggeration; he lacks the freedom of the younger generation of cup-painters. Rapid movement he does not attempt, but his figures are not lacking in animation; they are carefully, often beautifully posed, but their pose is never affected or meaningless.

As a draughtsman Euphronios has a very marked style. His drawing is throughout careful and detailed his line strong and fine. His face profiles are straight and clean cut. A fine straight line predominates in the drapery. In his drawing of the human figure he pays far more attention to inner details than do his contemporaries or successors, most of all in the

hands and feet , certain anatomical conventions are also constant.

With this as a basis for comparison, let us turn to the vases signed Εὐφρόνιος ἐποίησεν.

EUPHRONIOS AS POTTER; THE PANAITION GROUP.

We have now come to the point at which Euphronios may be supposed to have set up his own factory. From this point onward the eypayer signature disappears, and with it the favourite's name familiar to the early n.-f. masters, of Leagros. Of the four vases now to be discussed, two are inscribed with the name of Panaitios; certain unsigned vases, bearing the same name, are clearly to be associated with them. The works comprised in this group differ widely in merit, but not (with one exception) in style, and we may suppose, on the evidence of the common favourite's name, that they all date from a period covering not more than ten years. Certain features, it may be remarked in anticipation, occur constantly throughout the series; a particular type of young male figure, a very distinctive old man, certain characteristic attitudes. A partiality for back views is of importance, for the artist has a peciliar and constant method of drawing the human back Earliest of the series is the signed Eurystheus kylix of the British Museum. Let us then examine this in some detail, as the crux of the authorship problem.

Fig. 1, A, 4. For the modification of his type == Fig. 2.

The Eurystheus Kylix.

The Eurystheus kylix (B.M. E 44) " retains a certain archaism both of composition and detail. The grouping of the exterior resembles that of the Geryon kylix, the subject being continuous on the two sides, but arranged so as to form two distinct groups one in lively motion, the other in repose. As in the Geryon kylix the combat of Herakles with the three-headed herdsman is balanced by the quiet group of slow, heavy oxen and the four warriors in repose who follow them, so here the hero's exploit. with the boar is balanced by the chariot and four horses awaiting him under the guardianship of Hermes. The composition is, in spite of the resemblance, distinctly inferior to that of the Geryon kylix: the bentknees and back of the charioteer, only appropriate to driving at full gallop, are too obviously dictated by exigencies of space. So too is the bowed head of the old man behind Eurysthens, who should rather have been looking at the scene over which he is tearing his hair; and in spite of the pleasing device of making Hermes bend down to tickle the knee of the foremost horse with his caduceus, there is not room for his petasos, precariously balanced though it is on the front of his head, The main scheme of the composition is good, despite its shortcomings in details, and there is vigour as well as humour in the scene with the hero, the boar and the terrified Eurystheus, at and in the comic despair of the old man. The individual figures have not much grace or beauty, owing largely to their large heavy heads and the peculiarly clumsy profile," and to the very full Ionic chiton and the bunchy arrangement of the himation. The attempt at a full-face figure in the interior has resulted in a short and ungraceful one, and the foreshortened feet are extraordinarily ugly. The work altogether suggests an experiment of a young man in a style freer than that of the 'Leagros group'; an experiment which is not exactly successful, but shows a good deal of promise, amply fulfilled later in the Theseus kylix. The ugly foreshortening indicates inexperience; Euphronios had already used frontal figures and foreshortening with considerable SUCCESS.

There are indeed affinities with the Euphronies of the previous group. The sturdy, muscular Herakles might have been, perhaps was taken straight from a design of his.⁴⁸ The hetains of the interior has affinities with Sankra and her companions, in points such as the drawing of the breasts, of the hair, the ear and ear-ring; but these considerations do not weigh against the difference of proportions, line and pose.

⁶ F.R. Tat. 23.

[&]quot; Eurysthem in the wifer is, of course, not

exterior with any by Euphronica.

[&]quot;Harakles is the most stylised of all the gods and heroes. This broad, thick set type continues to occur with great persistence throughout the whola 'atrong' period, combined with figures of a quite different style.

The Theseus Kylie.

Mest problematic of all the vases from Euphronios workshop is the Thesens kylix in the Louvre (G 104), a work of far greater artistic merit than that which we have just been considering. At the outset we are confronted by a remarkable difference of style between the paintings of the interior and exterior. The former has all the formality and all the charm of a work not quite free from the restrictions of archaism; the latter, vigorous and free, but lacking the charm, seems to belong to a later phase.

at first sight even to a different hand.

The interior represents the visit of the young Thesens to Amphitrite under the geardianship of Athena. The here, a slim long-haired boy, stands in front of the seated Amphitrite, his feet supported on the head and lands of a little Triton; three fishes indicate the sea. The style is a curious mixture of two elements. The fine straight lines, the rejection of too voluminous drapery, the straight, well-proportioned figures, take one back to Emphronics and the Geryon kylix, and seem to have no connexion with the sprawling style of the Enrystheus kylix. Analogies with the latter are however, not wanting. Eliminate for the moment the figure of the young Thesens, and there remains a group of two figures closely analogous, however amperior, to that of the old man and hetairs in the Enrystheus kylix. The attitude of Athena, facing the spectator, with the head in profile and bent to look down at the seated Amphitrite, is that of the woman in the other scene, although Athena is tall and graceful, and the artist has not repeated the experiment of the foreshortened feet.

The same two elements can be distinguished in the detail as in the composition. The drawing of the leg muscles, the ear and ear-ring, are paralleled in Euphronics' signed paintings; the scale pattern of Athena's aegis is identical with that of Patroklos' breastplate on the 'Sosias kylix'. The type of head and face on the other hand is not so much a repetition of the previous type as a refinement on that of the Enrysthens kylix. The drawing of the Triton and the type of his head are quite unlike any on the interior, but are closely paralleled on the exterior. So is the brown hair of Amphitrite and Theseus with its delicately waved lines. The whole head of Amphitrite, of which the outline is revealed through her beautiful cockle-

shell himation, is exactly like that of Thesens on the exterior

In view of these considerations, one can hardly suppose the two sides of the cup to be the work of two artists. Of the interior we can only suppose a deliberate archaism, betrayed to some extent by the freedom of treatment of the little Triton, since the dating must be based on the more advanced portion of the work. The artist who had so far conquered technical difficulty as to be capable of the excellent drawing of the exterior must deliberately have sacrificed something of his newly acquired freedom, in order to treat a peaceful scene from his national mythology with a reverent reserve and dignity. We are surely justified in seeing in this choice the restraining influence of an older master, in fact of Euphronios himself, who, as head of a workshop, could claim at least to supervise the designs of the works which went forth in his name. M. Pottier, indeed, while admitting the hand of another and younger painter, gives the credit of the subject, composition and preliminary sketch to Euphronios. This is hardly to allow for the individuality of the work, which it must be admitted is not in most respects the individuality of Euphronios; but, since restraint and austerity are not characteristic of the artist of the Eurystheus and other kylikes, there is little doubt that Euphronios fully exercised his right of supervision in this work, suggesting if not himself supplying a good deal of the detail. The result is one of the master-pieces not of one school, but of the whole ceramic art.

In the painting of the exterior " the younger school had evidently a free hand, nor does religious restraint play any part in these scenes, in which Thesens, grown from a slim boy to an athletic youth, is the hero of a series of earthly encounters. The whole composition is a fine essay in the new and freer style of which Duris was an exponent. As in Duris' Theseus kylix in the British Museum (E 48), the composition is continuous, there is no rigid division between one exploit and another. The full-face Kerkyon of the Louvre kylix invites comparison with Duris' Skiron. A certain affinity is apparent between the two vases, despite the widely different temperament and execution of the two artists, who one remembers are linked at least by the name of Panaitios, and must have been contemporary for some part at least of their respective careers. We are face to face here with something widely different from the style of the Gervon or Thetis scenes, or the gods in procession of the Patroklos kylix. M. Pottier draws attention to one of the most essential characteristics of the work. On a cherché à éviter la symmétrie par des enchevêtrements de jambes, par des additions d'accessoires, des vêtements des armes des arbrisseaux qui, en meublant les fonds, dissimulent la monotonie des attitudes semblables et la répartition en métopes reguliers. Symmetry is one of the features on which the decorative schemes of the earlier vases largely depend; here the decorative feeling is preserved by means of a continuity of design. With Euphronics again, as with the forerunners of the strong style, the feeling is all for straight lines, in the grouping, individual figures, and drapers, here the principle of the design is a skilful handling of curves.

The draughtsmanship is excellent, the line very strong and vigorous, but, as in the interior, of a finer quality than elsewhere in the Pannitios group. The artist has here real scope for displaying his command of the human figure in difficult attitudes. The back view of Theseus is in vigorous motion is admirable, and has none of the appearance, which we shall see it is apt to have elsewhere in his work, of an irrelevant affectation. The full-face Kerkyon is treated with equal boldness and success.

[&]quot; Lourse Cat. p. 923, " Pl. IV. Photographs of the Hebbackeque of Art et & Archeologie, 196-7. " See Fig. 1.

One can only wonder that the artist of so admirable a work should have left us, among the vases which are closely related to it, none that approach it in conception or in fineness of workmanship. I have tried to indicate some reasons for believing it nevertheless to be by the same painter as the Enrystheus kylix. There are moreover certain unsigned vases, presently to be discussed, which form a close link between the two works.

The Dolon Fragments.

Of the signed vases, the Dolon fragments of the Cabinet des Médailles it most resemble the Theseus kylix, in the finances of the line, the use of colour, and the similar figure of Athena in each. The Dolon kylix was not a master-piece like the Theseus, but the drawing is fine, the conception fresh and mister-otyped.

The New York Herakles Kylic.

Another signed work belonging to the same group and representing like the above, hereic subjects, is the Herakles kylix in New York. On the interior the here is walking at ease, armed with his club and how, and followed by a little figure in a petasos; on the exterior are depicted two of his warlike exploits, the contest of Herakles and the sons of Eurytos, and Herakles and some opponent, of whom too little is preserved for identification. The delicate style of the work resembles that of the Theseus and Dolon kylikes, unusual care in the drawing of the muscles links it especially to the former. The Herakles is a refinement on the Herakles of the Eurystheus kylix, his opponent on the exterior recalls in face the hero and goddesses of the Theseus, and in figure the athletes on a series of cups to be discussed presently.

The Boston Komos Kylix.

We have next to consider the signed kylix in Boston, the style of which, differing from that of the others, makes its place in the series somewhat uncertain. It is closely connected with one unsigned kylix and less directly with two others, which have been reserved for discussion after the signed ones. All four represent genre scenes, in place of heroic adventures. The two last, in which the scenes are athletic, do not differ so widely from the heroic group as do the first, both of which represent scenes of revel.

The Boston kylix, if it may be judged from Hartwig's illustration, is not particularly interesting. There are points of contact with other works

[&]quot; De Rhider, San. Repr. in Mon. ii Tov.

⁼ Bulleton of Meir. Mez. vol. vili. No. 7, July, 1913; short notice and small photograph of the inferior. My notes on the work are based on drawings by Mr. J. D. Benzley, to

whose kinchess I owe my knowledge both of this cup and that belonging to Hauser, referred to below.

M Cat. 388. Bepr. in Hartwig, Moist. Tal. 47-48; 6

of the group. The heads show some likeness to the incomplete head of Hermes in the Dolon fragments. One bald old man is like the old man of the Eurystheus kylix. The composition of the exterior is continuous in design, but the figures succeed each other at regular distances as in a widely-spaced frieze; there is no overlapping, no introduction of accessories to break the monotony. The Boston kylix is the second of the signed vases which bears the name of Panaitics. It has the further distinction of being the only wase from the workshop of Euphronics in which the spelling is suriously weak. **emonoscop** for enousons and on many calos.

Kyliz in Petrograd.

With the Boston kylix certainly belongs one in Petrograd, published and associated with it by Hartwig, the man's figure in the interior of which is almost a replica of the man with a staff in the former. So also is the flute-case in the field. The subject and composition of the exterior are closely analogous to the Boston kylix, but of the two vases it is the Petrograd kylix which reveals most clearly its affinity with the rest of the group. Of the figures of the revellers, six are a study in the artist's favourite back view, in which the drawing is exactly the same as on the Theseus kylix.

The Athletic Group ; Hauser's Kylix.

We have now to consider a whole group of athletic pictures, by the same hand as the foregoing. One, a cup in Hauser's possession in Rome, unfortunately in bad condition, bears the name of Euphronics, and is of interest as proving that one at least of this rather peculiar series was made in his workshop.

Kulikes in Berlin and Manich,

Of the others two are closely connected with more than one of the signed works already discussed. They are a couple of small kylikes, one in Berlin,³⁰ the other in Munich.³¹ On the interior of the former is an old man seated, examining an arrow, on the interior of the latter a youth crouching with a spear, a panther-skin over his arm and on his head a petasos. Both figures are so turned as to show the back; so is one of the youths of the exterior in the Berlin example. In each case the drawing is exactly like

⁺ Mous. Tuf. 88, iz -40.

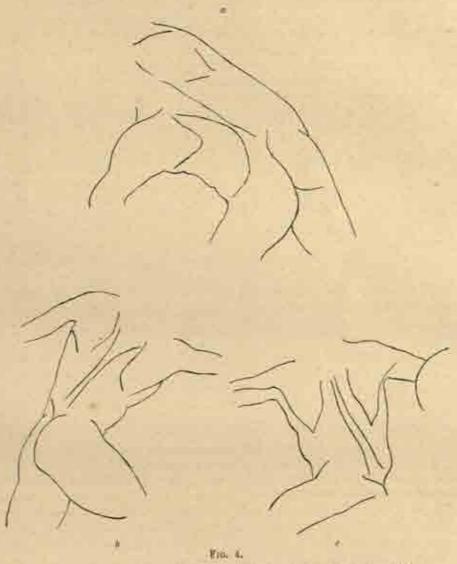
E This cup is not published, and I have not seen it, but Mr. Rearby, who has kindly given ma particulars of it, tells me that the style is that of the Munich and Roston athlets cups described below, p. 128. The laterior represents two youths, with athletic necessories, the

exterior attriotes. A second word on the inserior, faint and dishims, might be the expected excepts.

^{*} Not in Catalogue. Inv. 3139. Hurtwig.

^{7 2639 - 515 &}gt; Published by Meior, A.Z. 1885, Tal. 11.

that of Theseus' back in the Louvre kylix,58 This feature alone is so distinctive as to be almost sufficient indication of authorship wherever it occurs,50



4. from Euphronics' Thesens hylix. 8, from hylix in Serlin, Inv. 8180.
4. from alabastron fragment in Witteburg.

Amongst other characteristics of the drawing, the spine is indicated, not by a single line according to the usual convention, but by two lines, broadening

single tigure of a diskubules seen from the back. See Fig. 4.

See Fig. 4 for drawings from the Thesaus and Berlin kylikes.

As in a fragment in Wursburg, with the

between the shoulder-blades, and representing not the groove of the backbone itself, but the ridges of muscle on either side of it.

The interior of the Berlin kylix compares very closely with that of the Eurysthens kylix. It is the same old man who here sits alone, intent on his arrow, and, although the actual attitude is different, there is apparent in both cases the same desire for novelty and naturalism of pose. The Eurysthens is in this respect the better of the two; the other though a clever study of a nearly possible attitude, has an appearance of affectation.

The exterior of the Berlin kylix represents groups of athletes and trainers. The study of a back is repeated in a more natural position in one of the youths. The type of profile varies from the clumsy type of the Eurystheus kylix to a finer and straighter one approaching that of the Theseus kylix. The hands and feet are rather careless, the fingers long and thin. It is noticeable that the Theseus kylix alone of this group has well-drawn hands and feet.

The interior of the Munich kylix is a study of the same nature as the Berlin one. The execution is not particularly good, but the figure is an attractive one. The profile is good, and belongs to the Theseus, not the Eurystheus type: the shape of the head is that found throughout this group.

The exterior represents once more athletic scenes, with the addition of horses and the familiar old man in the capacity of spectator. The composition, both here and in the similar scenes in Berlin, is indifferent, the lines thick and the execution generally careless.

Kylikes in Munich and Boston.

In Munich ⁶⁰ also is a cup with scenes comprising in all ten athletes, training for various games. Athletic accessories ⁶¹ strew the field, and help to give a certain amount of unity to the studies which compose the two subjects of the exterior. Three figures show the usual back view. More remarkable is the new study of the full face, which occurs four times; it is an effect rarely used in contemporary vase-painting, except in special circumstances.⁶² The whole cup is a good example of what one may call the artist's studio work. Connected with it is a Boston Panaities cup ⁶² with a diskoboles on the inside, and six athletes on the outside. The diskoboles is characteristic. The most striking feature is the attractive study of a high jumper in mid-air.

In reviewing the whole group, we cannot but be struck by an extraordinary difference of quality between one work and another. The Theseus kylix is incomparably better in conception and execution than any other. Of the complete works the Eurystheus kylix ranks next to it; its faults are

Published A.Z. 1878, Tal. 11.

[&]quot;Is the pick, which figures also on Hauser's oup, the exaction of Theoretica, 4, 10, about the exact nature of which, beyond its comnection with codern, there seems to be no evi-

dense? Its use is, in any user, the mane; it is, as the scholinst on the passage remarks, is keep the upper part of the body in training.

at See note 17.

[&]quot; Published A.Z. 1884, Tat 16, 11.

those of inexperience and audacity, there is nothing either stereotyped or careless. The Dolon kylix must also have been among the artist's best works. The genre subjects seem to have been used entirely as studies, and lack interest. In the case of the Berlin and Munich examples, the single figures of the interior are interesting as such, but the poorly composed groups of the exterior fail to command attention.

The Pancition Master: Summary.

It has been impossible not to anticipate the conclusion that the series of vases under discussion is the work of an anonymous collaborator of Euphronies, whom we must be content to call, in default of a better name, the Panaities Mester. We have seen that the group does hold together, in spite of striking differences of style as well as of quality; that the two sides of the Theseus kylix are by the same hand, guided in the one case by a strong outside influence, in the other unrestrained; and that the Theseus and Eurystheus kylikes are linked by a series of vases uniting the characteristic features of both.

The theory of a first and second period, such as Hartwig makes out for Euphronies," is in itself perfectly possible. Such a case can be made out for Duris, as for many of the Italian Renaissance painters; and nothing could be more plausible than the conjecture that Euphromes, having served his apprenticeship under Chachrylion and Euthymides, fell in the course of his long career under fresh influences or developed a style more really his own. But the Panaities group stands quite apart; it reflects no outside influence that we can identify. Nor is its style either more or less individual than that of the group signed with Lypayer; it is simply a different individuality. How different may be seen in a glance at the Eurystheus kylix. Although the main scheme of composition bears a good deal of resemblance to that of the Geryon kylix, the conception of the scene is utterly different, instead of a strong sense of formality, relieved by an exquisite care for detail, we see an almost impetuous attempt at freedom, to which the detail is relentlessly sacrificed. The Eurysthees kylix is conceived in a broader, one might say a coarser strain. With the revolution in handling corresponds a revolution in type. It is enough to compare the women of the Eurystheus kylix with those of the Antaios krater or the Thetis fragments; the heads, the drapery, the proportions are all different. Of the points of resemblance pointed out above, we can only suppose that the younger artist, working in close conjunction with Euphronios adopted details from him, as Euphronios had adopted details from his seniors, Euthymides and Phintias. It is noticeable that these details tend to die out in the course of the painter's career; they are most apparent after the Eurystheus kylix, in the interior of the Thosens, in which we found reason to see the direct supervision of Euphronics.

[&]quot;So Furtwangler (F.R. is p. 164), who, For discussion of this theory, see p. 195, however, identified him later with Onesimos.

The individuality of Euphronios' colleague is nowhere more apparent than in the Eurystheus kylix, the earliest of his works. It was, indeed, this kylix that first convinced Fürtwangler of the existence of a second painter in Euphronios' workshop, and led him to retract his former statement that the Theseus kylix was the masterpiece of the painter Euphronios. A masterpiece it is, but not all the credit even of the interior belongs to Euphronios; in the exterior he has no share. Rather it teaches us to rate more highly the nameless painter whose work is otherwise not of the highest rank.

EUPHRONIOS AS POTTER; THE LATEST WORKS.

The Troitos Kylix.

Among the features of the great epoch of cup-painting, the fully developed strong r.-f. period, is the tendency, which has been often pointed out to make of the kylix a dramatic whole, in which the two scenes of the exterior and that of the interior are as three episodes of a play. The Troilos kylix in Perugia, from the workshop of Euphromos, is a perfect example of this dramatic treatment. The story begins on the exterior with the boy Troilos surprised by Achilles, is continued on the reverse by an arming scene, doubtless of the Trojans who are to give chase to the Greek bero, and ends on the interior with the murder of Troilos.

The dramatic composition, the focussing of the attention on the unhappy Troilos, give to the Perugia kylix a character different from any that we have considered hitherto; 69 but the difference extends further, to the type and disposition of the figures. The drawing of the two main scenes is of a fine quality; the groups composing them are conceived and executed with a strength that gives to the vase the intenset that the story deserves. On the exterior Achilles is dragging Troilos towards the altar where he is presently to kill him, while Troilos' horses gallop away in terror. The comparatively tame scene of the reverse is relieved by varieties of type and pose, and the ingenuity which has made of these familiar arming warriors acrors about to take part in a tragedy. Finest of all is the group of the interior where Achilles, still grasping the boy by the hair, raises his sword to kill him.

The long-haired warrior, exemplified here in Achilles, is a popular figure at this time. Scenes from the Trojan War are much to the fore, and with them Homer's καργκομόωντες 'Αχαιοί. But the Achilles of the Troilos kylix has parallels too close to be accounted for by the prevalence of a popular type. It is almost the same young warrior who figures on the interior of the Munich Centaur kylix ⁷⁰ (2640 < 368>), a work which bears such close analogies to the Troilos kylix that it has been universally ascribed to the same hand.

^{**} Y.R. L p. 111.

^{*} P.R. L p. 27.

[&]quot; Hartwin, Meist, Taf. 58 and 59 i.

[&]quot; Except possibly the Dolon kylix.

³⁰ F.R. Tal. 80.

With it belongs a smaller kylix, also with scenes from a Centauromachia 71 (Munich 2641 <363>). The composition in these two is of a different kind; it is continuous after the fashion of a frieze. Nothing could be further from the formality of Euphronies; movement, not pose, is the deminating idea.

Euphronics and Brygos.

Now the school of movement per excellence is that of Brygos, to whom therefore we may look for comparison with this case. The result is startling. the whole style of composition, the types and passes of the several figures, the line in contour and detail, are those of the kylikes signed by the potter Brygos. Analogies also become apparent between the Brygan kylikes and the Troilos kylix, the widely spaced composition of which may denote either an early work or an experiment in a less crowded style. The young warrior, (the Achilles of the Troilos kylix, and the young Lapith of the Centaur kylix), is the Oraimes (sic) of the Lauvre Hupersis signed by Brygos (G 152)72 The same type of bearded warrior also occurs on all three. Lastly, of the interior of the smaller Centaur kylix damaged as it is, enough is left to distinguish a Brygan youth of another type, that which prevails in the Wurzburg signed kylix.11 He has short hair, bound with the favourite fillet. The painter of Brygos vases is remarkable for variety. He never actually repeats himself, nor does he use, as Euphronies uses, particular details as trade-marks. In comparing his works one can therefore only notice resemblances of grouping of type and of line in general; and these are a fairly safe indication. Versatile as he is, he is also one of the most individual of painters, and his types, though he has a far larger repertoire than most of his contemporaries, are easily recognisable. There is not a figure on the Troilos kylix that is not roughly paralleled in some one or more of his works.

This is not the place for detailed discussion of the workshop of Brygos, but it may perhaps be well, in speaking of the Troilos and Centaur kylikes, to add a few remarks on the vases that were further associated with them by Hartwig. Most striking is a kylix in Berlin (2295) with scenes of fighting on foot and on horseback. This Furtwangler in his catalogue associated naturally with 'Brygos', Hartwig, on the ground of its resemblance to the Troilos and Centaur kylikes gave it to Onesimos, adding that Onesimos and 'Brygos' are often very similar in style. The kylix in question has indeed such close affinities with both groups that it can only be used as further proof of their common authorship. Nearly allied to it is the Edinburgh kylix published by Hartwig, also under the head of Onesimos; the resemblance is so close as to need no analysis.

¹⁰ F.R. H. pp. 133-5, Abb. 35-7.

See Fig. 5. For the whole Happenia, F.R. Ph 25.

⁼ F.R. Pl. 50.

H.S.-VOL XXXV

¹⁴ Meist, Taf. 56, ii, and 57.

Maint Tall 55 and 56, L. Of, with both cups that in Oxford signed by Brygos. J. H.S. vol. xxxiv. Pl. 0.

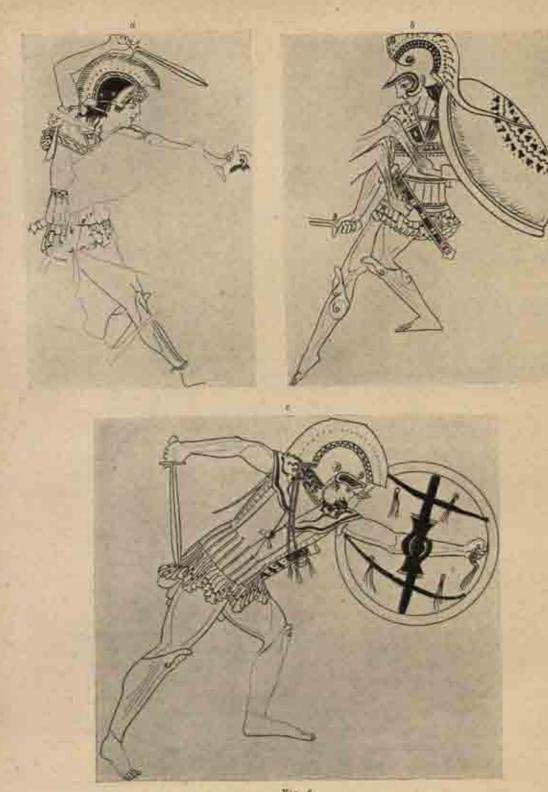
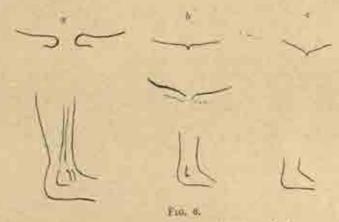


Fig. 5.

n, From Perugia Trollos kyliz.

o from Brygon Louvre llimperas kyliz.

These five kylikes then, with a sixth to be discussed presently must be added to the credit of Brygos' colleague. It is impossible to say whether my of them, with the exception of the Troilos kylix, were made in



o, Emphronios. b. Pamultine Ma

Typical details (collar-bone, ankie) in style of :

b. Pannities Master. s, painter of Brygos' raise (rarely as in b).

Euphronies or Brygos' workshop. The Troiles is probably an early work, and we may conjecture that the artist's association with Euphronies preceded that with Brygos.

Onesimos.

In this connexion we have to examine the question of Onesimos, a painter first reconstructed by Hartwig, and since the subject of conjectures, which, if correct, would raise him to a position among the greatest ceramic artists. The theories concerning Onesimos are briefly as follows. Hartwig, while retaining the Panaities group as representing the later style of Emphronics, attributed the Troiles kylix, the four kylikes just discussed in commaxion with it, and certain others to Onesimos, on the ground of resemblances with the kylix in the Louvier bearing the fragmentary signature.

. μος έγραφσεν. Furtwangler, in what was I believe his last word on the subject. attributed to the same artist not only the Troiles and two Centaur kylikes, but the whole of the Panaities group, thus making him the painter of all the vases with the signature Εὐφρώνιος ἐπούησεν, with the exception of the Berlin polychrome kylix. Pottier inally attributed to the same Onesimes not the Panaities group, but the Troiles and allied vases, together with the whole series of vases from the workshop of Brygos.

m P.R. H. p. 184.

[&]quot; This at least he does not mention, and I do not know of any theory of his relating to it.

In his Mainteger, ii. p. 566, he calls it simply the latest of Euphronios' signed works. Zonere Cat. p. 1604.

The Louvre Horsemen Kylix.

Before considering whether Onesimos can be promoted to this rank of importance, let us look in some detail at his signed work such as we know it. This unfortunately consists of but one kylix (Louvre, G 105), and, it must be admitted, not a very striking one. On the interior is a youth on horseback, on the exterior a succession of similar figures, broken by one who is dismounted and attending to his horse. The figure of the interior is the descendant of the Leagros of the Geryon kylix, the exterior is the first of a series of similar groups, which continues well into the 'line' period. It is unfortunate, as far as comparison with other works goes, that Onesimos' one remaining vase should be entirely occupied by this monotomous type of cavalry. We cannot compare his figures with any of the more interesting types on the Troiles kylix or on any of Brygos' vases. There remain for comparison, however, besides the composition and general handling the young half-armed warriors of the Troiles kylix and the horses.

The whole handling of Onesimes kylix is curiously weak. The young horseman of the interior forms quite a pleasant centrepiece, after a familiar model; he is rightly at rest, his horse well reined in. The repetition, however, on the exterior of a whole series of similarly inactive horsemen, ("cavallers courants" they really are not), is completely unimaginative. Nor are they purely decorative, as are the four stationary horsemen, possed with absolute symmetry, of the Castellani kylix. The same weakness or constraint is apparent in the individual figures. The horses are curiously solid and wooden, the riders very stiff. The type of youth, for all are practically the same, is a peculiar one; the head is disproportionately small, and has a straight back almost unparalleled in Greek vase-painting and rare in scalpture; the legs taper to small pointed feet.

For analogies with this work we naturally look to the Troiles kylix, which is united with it by the signature of Euphronios and the name of Lykos. Now the young Trojans arming in this work bear no resemblance to the horsemen of Onesimos. They are of a much more athletic type, and have none of the characteristics just described. Stress has been laid on the likeness of the horses in the two works, but examination shows this also to be doubtful. The horses of Onesimos are wooden; those of the Troiles kylix are perhaps fanciful rather than real, but they are alive. The build again is altogether different. Onesimos' horses are short in the back, thick in the hind quarters, and long in the shoulder in comparison with their height; their legs are tapering, like those of their riders; their heads are small, the eyes set far forward. Those of the Troiles kylix have long noses, the eyes further back, long backs, finer hind-quarters and stronger

³ Hartwig, Meist, Taf. 53

⁽Minnich 2688 < 370 ×), F.R. Taf. 6. ** See below.

^{*} Of the extentor of the Penthodola kylis

legs, and are altogether better proportioned. The drawing is not unlike in details, otherwise the horses of the Onesimos kylix are much nearer to the

sturdy little horse of the Geryon kylix 82

This curious fact may be regarded purely as coincidence, and may serve as a warning against the basing of theories on chance resemblance, or it may go to confirm the influence of Euphronics on Onesimos which is to be expected from the conjunction of their names on the Louvre kylix. In point of fact, all the horses on Greek vases for a period of nearly forty years have a strong family likeness, but the variations on the general type are infinite. No two are the same, but details can be paralleled almost

anywhere; the general handling is the only reliable indication

M. Pottier instances, as a link between the Troilos kylix and that of Onesimos, the fragments of another Troiles kylix in the Louvre (G 154).32 They are undoubtedly in the style of Brygos' colleague, and their equally obvious affinities with the Perugia kylix serve as additional proof that Bryges' colleague was also that of Euphronies. The comparison with Onesimos is however, more dubious. Similar details in the drawing of the horses are there, to be taken for what they are worth, the same feature of columns in the background indicating a building, not in itself a very conclusive piece of evidence; but there the resemblance ends. The fragments have all the vigour which we commonly associate with the workshop of Brygos, and which contrasts strongly with the weakness of Onesimos' drawing. men are all bearded, making individual comparison difficult, but we might expect analogies between the young Troilos and the riders of Onesimos. There is no comparison between them. Troilos, slight as he is, is firmly made and his legs do not taper; he is moreover riding, though on the verge of being dragged by his bair off his horse, while Onesimos' youths are simply sitting on their horses. M. Pottier admits a more archaic and conventional style, and concludes that the signed kylix is an early work of Onesimos. This it may be, but the name of Lykos binds it to the Troilos kylix, and the difference between them is too great. Still greater is the contrast of Onesimos inanimate composition with the spirited drawing of the Louvre Hupersis and the Munich Centauromachia. The constraint apparent in the former is not that of inexperience, but of inherent caution, the last quality that could be associated with the colleague of Bryges, whom I am therefore obliged to leave nameless,54

M. Collignon notes the same thing in his discussion of another question (Men. Gree, ii. 14-16, p. 2). 'Le cheval point par Onesimos a l'encolure large, la croupe pletur, la surpa épais : la quame est solutionent dessinés à l'aide de qualques hachures ; enfin la tête est courte et petite. Or vous retrouvent tous est mentions.

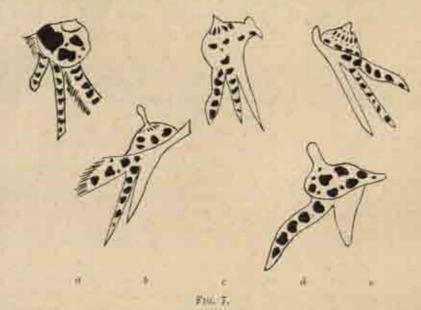
dans les vasse d'Euphronies qu'un s'accorde à constitérer commes les plus anciens, par exemple dans la coupe de Leugres."

^{**} Man. Flat, xvi. Pll 15-17.

It is, of course, possible that Hygos was his own painter; but it is less confusing not to assume it.

The Castellani Kylix and Rhitsina Skyphos.

Two other vases call for discussion in this connexion, the Castellani horsemen kylix. which Hartwig attributes, plausibly at first sight, to Onesimos, and a skyphos recently discovered at Rhitsona in Bosotia. The Castellani kylix resembles Onesimos kylix in subject and in some details of the composition. It is less animated than most of Brygos work, and, in the narrower sense of the word, more decorative; that is, the decoration is more symmetrical. The drawing has not the stiffness, however, of Onesimos. The same pillars are there, but for a distinct purpose, for the horses are tied to them. The only striking resemblance is that of costume: Onesimos youth catching his horse is dressed like the Castellani horsemen, in cloak, skin-cap, and flap-boots. Now the cap and boots are



* from Oussimos' kyliz. b, c, from Castellani kylix. d, from Rhitsona skyphos.
* from kylix of the ashool of Emphronics (Hartwig, Pl. 14).

not of Greek origin, but were adopted, to judge from pictorial evidence in Athens in the fifth century. The so-called ἀλωπέκη (the skin shown on the vases is certainly not fox, but something of the cat tribe) is part of the costume of Scythians, Amazons, archers, and βάρβαροι generally. Presumably the wealthier of the Athenian citizens such as the cavalry of our kylikes, had their caps of the original skin, while the poorer made them of the more accessible fox-skin. The name ἀλωπέκη would thus become a generic name for caps of this shape. The cap seems to have come to Athens við Thrace.

for we find it on Thracians in vase-paintings; so probably the boots which Dionysos wears frequently, and the Seilenoi of occasionally. That both cap and boots were fashiomable at Athens in the middle of the fifth century is shown by their occurrence in the Parthenon frieze; one slab from the west front in particular gives us almost the plastic counterpart of the horseman on the interior of the Castellani kylix.

The costume in itself, then, can hardly be used as evidence. When we come to examine the drawing of the costume in the two kylikes, we find that even in this it is different, as a sketch of the caps will show." The drawing of the Castellani kylix, in this as in other respects, is much nearer that of the Rhitsons skyphos, and the skyphos bears a strong resemblance to other works of the 'Brygan' cycle. "Its resemblance to Onesimos' cup is more superficial. The youth with the skin cap and boots is full of life and potential movement; Onesimos' similarly equipped youth is, like all his figures, lacking in animation.

The Rhitsona skyphos certainly belongs to Brygos' colleague. Among the points of resemblance to those works of his that have been discussed here may be noticed the shield device, paralleled on the Edinburgh kylix.



The Castellani kylix must be similarly assigned, although it stands somewhat alone in style. It is nearest to the Troilos kylix, and, like it, probably an early work. The most striking resemblance is in the youth who stands with his weight on one leg and the other leg crossed behind it, a pose which is closely paralleled on the Troilos kylix.

Onesimos and the Panaities Group.

There remains Furtwangler's attribution to Onesimos of the Panaitios group. The kylix of Onesimos is in some ways not unlike the genere paintings of this series, but the resemblance is quite general. The characteristic types and poses of the Panaitios group are absent in Onesimos' kylix, and the type that Onesimos repeats so persistently has no parallel in the Panaitios group. Furtwangler of course relied on the Troilos kylix as a link in his proof and the theory will not hold without it; but even if we dispense with Onesimos, the further question remains: was Furt-

^{**} As on Borrow 394 (Robbinson's Cat.). Severn style. They occur, made of decr-akin, on one b. L amphora. Here it is the Dinamri who wear them. Gerhard, F. Rir. D 2.

^{*} Smith, Pl. 53.

Fig. 7. I have added for comparison one which cannot be attributed to Oussimos under any circumstances.

⁼ E.S.A. xiv. p. 302. Barrows and Ury, who also rules the Oussimus quantum with regard to it.

Ouriously enough Furtrangler first realised the possibility that the Troiles kylix was by the same painter as the vasse of Brygos (Wieck-Progr. 50), but abandoned the idea in favour of the above theory.

wangler right in associating the Panaitios group with the Troilos and Centaur kylikes? If so, we should be faced with the necessity of attributing all this group also to the colleague of Brygos. The evidence, however, does not appear sufficiently strong to justify the association. There is, indeed a marked resemblance between the horses of Troiles and those of the Eurystheus kylix, but I have tried to point out afready that too much stress can be, and has been, laid on casual resemblances between horses. Further analogies are that of the bearded warriors of the Troilos kylix with the Iolass of the Eurystheus, and of Troilos himself with the Theseus of the Louvre kylix. The head of the eroughing youth (Munich 2639) again is not unlike a 'Brygan' type. Note of these types are, however, exactly parallel in the two groups, and the use made of them is quite different. The painter of the Brygan group does not make use of studies, as does the painter of the Panaitios group, nor does he affect the groups and poses dear to the latter. The old men who figure in his work are more kindly handled, and the rather grotesque type of the Eurystheus kylix and others does not occur. Conversely the types which we associate with the workshop of Brygos are absent in the Panaitios series-The composition of the latter series is not so good as that of the former in genre scenes in heroic scenes it is quite different. There is nothing of the 'dramatic' style about it, except perhaps in the Dolon kylix, which, as far as one can judge it in its fragmentary condition, was nearer in composition to the heroic scenes of the Brygan school. The masterpiece of the Panaitios series, the Theseus kylix, has no sort of parallel in the other groups. Altogether we should have to suppose a change more sudden and complete in the work of the Panaitios Master than is really possible, if we were to believe him to be the artist of the Troiles kylix and all that it involves. The change is nearly as complete as that from "the early" to "the later Euphronics, the theory nearly as untenable,

The Berlin Polychrome Kylix; the Exterior.

So far, then, there have been three arrists besides Euphronios engaged in his workshop. There is one more signed vase from this workshop, the polychrome kylix in Berlin (2282). Can this be assigned to any one of the foregoing painters? That it is the latest of the whole series there can be little doubt; apart from the new technique of the interior, the name of Glaukon and the advanced style of the exterior bring it down to a later date than any other.

Let us leave for a moment the question of the interior, which by reason of its technique falls into a somewhat different category, and examine the style of the exterior. The subject is a series of youths on horseback, like that of Onesimos' kylix, but with this difference at the outset, that both horses and riders are intensely alive and engaged in a race; one horse is

es Hartwig Ment Tat 51-2.

rearing, the others galloping, and the youths are riding in earnest. The vase is unfortunately both much damaged and much restored, but sufficient remains untouched to establish the style. The horses are not particularly like any in the preceding vases, the boys are of a new type. Most noticeable is the almost unique head, with the thick mass of hair flowing out behind.

The eye is of a more advanced form than hitherto.

The whole style of the exterior is less constrained than that of Onesimos; nor does it resemble that of either of the remaining colleagues of Euphronios discussed above. It seems rather to anticipate a style common in the 'fine' period. The author, indeed, of a recent short history of vase-painting 's attributes to the same painter a series of works of culminating in the exterior of the Penthesileia kylix in Munich (2688). This last is of a far more advanced style, even though it is not by the same hand as the interior; the development in a painter of the transitional period is however possible. Onesimos was not the painter of the Berlin kylix, but he may have set the fashion for friezes of horsemen to the so-called 'Pierdemeister' and others. To the last-named artist, then belongs the exterior of Euphronios' last signed work, the interior calls for separate discussion.

The Interior.

The white-ground kylix paintings of this date fall into two groups, one in which the technique resembles more or less closely that of the white lekythoi, the other in which it is like that of red-figured vases. To the latter class belong the well-known Maenad of the Munich kylix (2643—332—)% attributed to 'Brygos' by Furtwangler, and a much damaged painting, supposed to represent Europa, in the British Museum (D 1); of the former the interior of Euphronios kylix is a good example, with its beautiful fresco-like treatment. Hartwig believed Euphronios to be himself the painter of both sides of the kylix. The interior, indeed, is more compatible with his style than many of the Panaitios group which Hartwig also assigned to him, but the gap between this and the work signed with Eypayer is too great to confirm the supposition. The most marked difference between the interior of this kylix and any other of the whole Euphronian series is in the new type of head, which is best described as exactly like that of the Delphi charioteer.

Nearest to the Euphronian kylix are the fragments from the Acropolis with the death of Orpheus. This is a later work; the eye is of nearly correct form, and a great advance on the Berlin kylix is apparent in the fall of the drapery over the Thracian woman's breast. The head of Orpheus, however, is parallel with that of the young man in that work, and the whole

[&]quot; Buschor, Gracchische Fassmonder, pp. 179-

^{*} Unfortunately not summerated.

See p. 153.
⋈ F.R. Tal. 49.

[&]quot; J.H.S. ix. Pl. 6.

technique is very similar. The Orpheus fragments may well be a later work of the artist who painted for Euphronics in his early days.

Summary.

Euphronios' colleagues, then, are five in number, each with a very distinct style of his own. Their respective characteristics may be briefly summarised here. The earliest by some few years is the Panaitios Master, a painter who stands half-way between the half archaic style of Euphronios himself and the fully emancipated strong style represented by the great cup-painters. We have seen the influence of Euphronios reflected here and there, notably in the interior of the Theseus kylix, but the bulk of the Panaities Master's work is intensely individual. He is ambitious, careless, and variable, and lacks Euphronios' sure judgment. Of the paintings in which Euphronios plays no part, by far the best is the exterior of the Theseus kylix which, compared with much of his work, is as a picture compared with rather indifferent sketches. We have noted his partiality for back views and his distinctive drawing of the back, his favourite model of the ugly, bald old man, the careless outlining of hands and feet contrasting sharply with Euphronios' delicate drawing.

We cannot determine how great a part was played in Euphronics workshop by the artist who is better known as the colleague of Brygos. Our only evidence of his collaboration with Euphronics is the Troilos kylix, which is however, one of the most important of the series. His style is too well known to need analysis here: the fine draughtmanslup, the delicate but free line, the animation of an exuberant personality. To the same period belongs Onesimos, whose cautious temperament and weaker line

contrast him with the last-named painter.

Allied with Onesimos' kylix in subject is the exterior of the Berlin polychrome kylix, but the style is transitional between the advanced 'strong' and the 'fine,' and is perfectly distinct from that of Onesimos or any other. The curious head with its thick flowing hair has already been noted. The drawing is good, the scene animated. For want of a name the painter may be distinguished as the artist of the Berlin horsemen. Lastly we have his collaborator, the polychrome painter, a fine exponent of a technique which, it is curious to note, never attained to much popularity except in the case of the well-known lekythor. The beautiful white-ground kylix-paintings remain the isotated experiment of a few artists. It is not surprising to find one of them in Euphronios' employ. As a painter Euphronios is intensely individual, as head of a firm, as the foregoing survey is intended to show, he is pre-eminently eathelic.

EVELYN RADFORD.

TABLE OF VASES BY EUPHRONIOS AND HIS COLLEAGUES "DISCUSSED ABOVE.

```
Emphronies as painter :-
               Lauvre Antains krater. [F.R. Taf. 92-3.]
                Petrograd Hutainai psyktor. (F. R. Taf. 63.)
               Munich Geryon kylix. F.R. Taf. 22.)
               Arropolis Thetis fragments. 67ahrs. 1882, Taf. 2; and 4th Mitth: 1888, p. 105.)
Determining word missing i-
    Barlin Himpersis fragments. (Arch. Zeit. 1882, Taf. 3.)
Attributed :-
     Beslin Patrokies kylix, signed by Sesins as potter. (F.R.H. Tal. (23.)
   Aivern Amason krater. (F.R. Taf. 61-2.)
Leuvre amphera G 106. (Mon. Prof., iz. Figs. 8 and 8.)
    Louvre amphora G 107. (Not published.)
   America kylis (Klein, Liebl. p. 73, from drawing in Rom. Inst.)
    Berlin kylit, Inv. 3232. (Jahrb. 1893, Taf. 2.)
     Bouton kylix: (Hartwig, Messt. Taf. 14.)
     B. M. kylin E 45. (Hartwig, Melel. Tal. 13.)
     Borlin stampos fragment 2181. (Not published.)
     Berlin kylix forgment 2280. (Hartwig, Move. Taf. 24, 2.)
The Pannition Master ;-
     B.M. Euryuthem kylix. (F.R. Taf. 28.)
     Bibl Nat Dolon fragments. (Mos. ii. Tav. 10 A ; and Arch. Zont. 1882, p. 47 )
     Louvie Thesana kyffs: (R.R. Taf. 5; and Mon. Green, i. Pl. 2)
     Renton Romes hyllic (Hartwig, Mrist, Tat. 47-48, L)
     New York Harakies kylix. (Bullet's of Metr. Mas. vill. 1913, No. 7.)
     Athlete kylix in Rome, call. Hamer. (Not published.)
     Petrograd kennes kylix. (Hartwig, Meist. Tal. 43, 11-49.)
     Berlin kylir, Inv. 3139. [Hartwig, Metal, Tal, 46.]
     Munich kylin 2639, (Arch. Zeit. 1885, Taf. 11.)
     Munich kylix (Arch Zor. 1878, Taf. 11.)
     Beston kylin. Livel. Zeif. 1884, Taf. 10 ii.)
     Wurglass alabastron fragment. (J.H.S. xxvit 1997, Pl 5.)
The painter of Brygon Them :-
     Perugua Troiles kylix. Hartwig, Meist, Tal. 58 and 59, L.1
     Munich Contant kylix 2440. (F.R. Taf. 8d.)
     Manish small Centaur kylix 2611. (F.R. ii. pp. 158-5, Ant. 35-7.)
     Berlin battle kylix 2250 (Harrwig, Meist, Tat. 56, ii.)
Edinburgh battle kylix. (Hartwig, Meist, Tat. 50 and 56, l.)
     Castelland harosmen kylix. (Hartwig, Moist, Taf. 54.)
 <Ones > imos : -
     Louve hommen kyliz. 47 105. (Hartwig, Meist Tal. 53.)
The polychrome painter :-
     Herlin polychrome kyliz 2282. (Hartwig, Meist, Taf. 51.)
The Muster of the Berlin horsemen :-
     Exterior of foregoing. (Hartwig, Meist, Taf. 52.)
```

[&]quot; The works signed by Emphronies are underlined;

NOTICES OF BOOKS.

Scythians and Greeks; a Survey of Ancient History and Archaeology on the North Coase of the Eurine from the Dannbe to the Canciens. By E. H. Minns, M.A. Large 4to, 720 pp., 9 Maps, 9 Plates, 351 Illustrations in the Text. Cambridge; at the University Press, 1913.

The appearance of Mr. Minns' work was a principal archaeological event in the year 1913, because, in a real sense, the author broke fresh ground. Other culture areas of the Old World are laboured again and again; their literature is printed in familiar languages; progress is immediately and amply reported. But of the great region from the Carpathians to the Caucasus and beyond, this is only true in part : the antiquities from the Greek colonies on the Euxine littoral were known; the barbaric antiquities of the interior were neglected in the west of Europe. The enterprise of M. Salomon Remach presented as in 1891 with a French version of Kondakov and Tolstei's "Antiquities of Southern Russia ; M. Pharmakovsky's periodical notices in the Archielegischer Ascelger were of the atmost value in drawing attention to new discoveries. But neither the book nor the reports claimed to be exhamsive. It remained true that entil 1913 there was no comprehensive treatment of South Russian archaeology in a language generally understood by scholars. The need for such a work had loves steadily increasing since 1889, when the Imperial Archaeological Commission of Petrograd esseed to publish its old Compts results in French and Garman, and issued its reports in Russian alone: An exceedingly fertile archaeological field was becoming veiled for us in a kind of most at the very time when the prospect over other fields grew clearer. It was an anomalous and absurd position, to which the publication of "Scythians and Greeks" abruptly just an end. Mr. Minns has drawn upon the whole published material to date, with the result that his chapters contain the substance of works hitherto practically inaccessible. The ample hibliographies sufficiently prove how wide the foundations are upon which he has built this solid structure.

The subject of the book falls inturally into two main parts suggested by the title, and the order of their precedence indicates that our primary concern is rather with the harbaric than with the highly cultured people. This is not improperly the case, because Scyrhic art and its function as intermediary between Asis and Europe are still imperfectly understood; and though the full treatment of the Greek antiquities in the second half of the book leaves nothing to be desired, there is inevitably less unveity here than in the earlier page. It is perhaps unmecessary for the general student to expect finality in any definition of the term Scythic which plays so promitent a part in every chapter. It is here taken to describe a population ranging over the great forms one of Steppes, and composed of two principal elements, the framan and the Farki, the former predominant is language, the latter in common life. For the archaeologist, the ethnological question, however important in itself, is subsatiary; for him the chief interest lies in a cultural uniformity in face of which authropological distinctions have relatively small significance. The essential point is that we have here a single art,

determined by Steppe conditions, ranging over an enormous area, from the confines of China to those of Hangary, and preserving an unmistakable identity from a period carrier than the sixth century s.c. down to late Roman times. At various periods it received invading influences from higher civilizations in the South, which modified, without destroying, its individuality, in its decay, it transmitted westward styles and methods of orumnent which ultimately affected the industrial art of barbaric Europe. Along a northern zone it thus fills the gap between China and Europe, as the art of ancient Turkestan tills it along the line of the central deserts. It was high time for its importance to be more fully recognized than has hitherto been the case in this country. In putting forward its claim to more serious notice, Mr. Minns has seized the psychological moment; for there has mover been a period when European interest was so

strongly directed towards the art of Asm as the present.

The sariy art of the Steppes is seen at its purest in the bronze satisquities discovered in the region of Minnsinsk, in the basin of the upper Yenisei ; here it seems to have first attained its individuality, and when it began to travel, its movement was from East to West, following the general trend of the nomadic peoples. The distinguishing mark of the developed style is the schematic treatment of animals and mousters in a characteristic manner, of which Mr. Minns dilustrations well render the peculiar convention. So far does achematization often go, that sometimes the animal type is almost last in a series of curves; and the author suggests that the movement tends to proceed rather by the perception in the curves of animal possibilities than by a progressive degradation from natural forms. The point is arguable ; but the evidence from ethicgraphy somewhat favours the opposite conclusion, as does the testimony of the early Tenumic art of Europe (not unrelated, as we shall see, to that of Scythin), in which the original beast is resolved into a maze of sundered or comorted limbs only to be reconstructed by the trained eye of the specialist. This is not to say that here and there more projections might not be changed to "bank-heads," or manimate ornament animalized to please a lively fancy, but only that the main organic process was, more probably, one of degradation. The mention of early Teutonic ornament brings us to one of the most interesting points in relation to Scythic art, its connection with the art which the Goths and kindred tribes carried across Europe from the morth of the Black See at far as England. That the Persian style of 'inlaid jewellery' was transmitted from Asia into the South East corner of Europe by the agency of the Scyths, is now generally mimitted; they were in the right place at the right time, and provided with an art exactly suited to Teutonic inclimation. Did they in like ammner introduce the heast-ornancent which forms the foundation of early Teutonic and Scandinavian art? Though the centrary opinion of Sophus Müller must command respect, an examination of * various Scythic ornaments with conventional birds' heads and other comorphic features suggests that Mr. Minns has a strong case when he suggests that objects of this kind, closely allied in character to the barbarie art of Europe, and at the same time earlier in date, in all probability exerted a primary influence upon it. The question is one which deserves to be carried farther by comparative study upon an extensive scale.

Among the influences penetrating the Steppe, those of Mesopotamia and Iran were naturally conspicuous. The earliest inlaid jewellery which went north dates, as far as we know, from Achaemenian times. The gold armlets of the Oxua treasure in the British Museum are examples of the art which characterizes those discovered by de Morgan at Suss: the fine collar from Siberia, now in the Hermitage (p. 272), is of the same family; and all those objects attest the northerly transmission not only of technical methods, but of types such as the gryphon and lion originating in early Mesopotamian art. The influence continued during Sassanian times, passing round and across the Caspian, and is proved by the survival both of smaller objects and of such notable finds as the Petrossa treasure; of all those which affected Scythic art in Russia it was, perhaps, the most continuous. It began at a period even earlier than the oldest Persian dynasty; several objects from the Scythic area show motives of obvious Assyrian origin, of which the

Melgunov shouth (p. 171) is the most widely known. But it had a rival in eigenous influences from Ionia, and possibly from the Aegean; there are reasons which seem to favour the acceptance of M. Reinack's theory that the 'flying gallop' traversed the whole of Asia from the Mediterranean to China (p. 262). Like Persia, Ionia contributed much to the imprintion of Scythic fancy; the ivery ibex found during the British Museum excavations at Ephasia recalls in a striking manner a favourite Scythic convention in the treatment of recombent animals (p. 260). The whole subject of the penetration of Inner Asia by various streams of culture during the first millennium a.c. is one of singular fassination and still sufficiently unexplored to attract research. Class such as that formshed by the finds at Ephasias may well be multiplied, until the question of relative indebtaduess between the different regions is finally decided. Ionia probably gave more than the received; yet it is not impossible that counter suggestions may sometimes have some southward and westward from the Steppes. There are arrested

frontiers here which await precise delimitation.

The classical archaeologist will probably be attracted in the first instance by the second half of the volume, in which the history and art of the Greek colonies - Olhia Chersonese. Theodona, and the rest, are methodically described and fully dimerated (Ch. 11,-21x). Here, again, we have what amounts to a corpus of all discoveries to date, with references to the original sources. It is perhaps unnecessary to dwell upon these chapters in detail, because the more important objects, such as the Kul Obs vase. (pp. 200, 287) and the Chertondyk how-case and sheath (pp. 285, 286) are airendy familiar to most; but it will be remambered that for certain branches of infinitenlast, joinery, textiles, decorative painting, and, above all, jewellery, the colonies of the Eunine have yielded results unrivalled in any other part of the Hellenic area. Sculpture and architecture are here of less significance; and ceramics are perhaps chiefly important from the light which they throw on the relations between the counts of Scythia and other parts of the Greek world. Painting on a larger scale is represented by the designs on the coffin of the Kul Oba queen, the Stein of Apphe, and various wall-paintings decorating tombs and catacombs in the Taman poniusuis and Kerch. The Greek material which Russia has yielded, and continues yearly to yield, as in every way remarkable, and gives rise to many points of interest especially concerning its relation to the art of the Scyths. There is, for instance, the varying intensity of its influence in this quarter. The Scythe continued to prefer Ionian types long after the matured art of Atties had superseded them in the cities of the Euxine, where home-fashions were always quickly followed. The cause of this deeply-established proference is probably to be sought in the fact that, geographically and emotionally. Ionian art was nearer to the early Scytlis than was that of Athens; it was more congenial and intelligible to them than the developed figure-art of the fourth century. A second point has reference to the examples of Greek art deliberately unapted to barbaran use, either by employment on objects purely Scythic in type, such as low-cases, swords and sheaths, or by the adoption of motives calculated to please a burbaric trate. The craftmum were at pains not to full too far below their best in the production of costly things made to the order of princes or chiefs; the above-mentioned Chertonlyk bow-case and sheath attest this for the matters style, while the Vottersfelde tressure (p. 236), first described by Furtwangler, may be taken in illustration of an earlier period. Such objects attest the pliancy and enterprise of the Greeks in discovering and retaining new markets; they did not always press their own types upon the barbarian, but often wisely conducerated to his own.

Many sections of this veritable encyclopeed of South Russian archaeology can only be indicated in the present place. The chapters on local geography, an numedic life as known to assign historian and modern traveller, on pre-Soythic romains, all contain matter of importance; the account of the so-called Tripolje culture, with its decorated were and affinities to the ancient art of the Aegean, may be especially noticed. Attention may be drawn to Chapter XII., on representative Greek tombs;

to the treatment of the courage, illustrated by numerous plates, and that of the Bymntine churches of Cherson: aml to individual problems of varied interest continually ruised and discussed. One such relates to the gold which was the characteristic material of Soythic art (pp. 7, 113, 269, 440, etc.); the full index will soon suggest others to the reader of archaeological experience. We may conclude this brief summary by a word as to the ample equipment of the book in illustration, comprising, in addition to process blocks from photographs or earlier engravings, many line-drawings and maps which we believe to be from the author's own hand. Though not a trained artist, by has been successful in giving much of the character of the objects, as we may judge by turning from his work to the exactor photographic reproductions present in an small number; this is what he set out to do, and his renderings sufficiently serve the purposes of preliminary study for which they are intended. The maps, both in the corers and within the volume, in some cases surprise the eye by the bold comvention used for mountains; the saesting of the ranges about the Pamir, for instance, suggests at first sight an engagement between converging columns of great ants. But when they are more nearly examined, they will be found useful and efficient, containing the names of the tribes, cities and matural features which the student needs. Moreover, they are executed in a pleasant archaiging manner, with a feeling for style which gives them in some cases a descrative value of their own. Non IV. (Scuthia Quadrata), V. (Southis ind mention Herodot), and VI. (Prolemy's Series) have more than a touch of the quality which charms us in the work of map-makers in past centuries.

Probably no other Englishman but Mr. Minns personal the varied accomplishments mosseary to produce the work embedied in this volume ; the union of scholarship and archa-ological training with a knowledge of Russia and familiarity with her language is a rare combination in our country. The whole book bears testimony to the research required in the successful effort to cover so wide a range; the reader who penetrates for into this great storehouse of facts can well understand that their collection and presentation in a series of buold chapters must have commed years of the author's life. If the object of a scholar's labour is to advance learning, the sacrifice has not been made in vain. Many a student of antiquity, hitherto repulled by the imagined remoteness of the Russo-Siberian archaeological area, will feel that it has now been brought within convenient distance, and that communications have been opened up between provinces hitherto regarded far too much in issintion. The book has, nulsed, the virtue of inlarging the view and setting familiar points in a perspective at once mes and accurate, a murit which soldom fails, if all the work is acholarly, to carry with it admission into the first rank, and the prospect of being regarded a classic in its aphore. "Soythians and Grooks" has already become indispensable; and if the author will - prepare for future editions by digesting the contents of new Russian books and monographs as they appear, it is likely to remain indefinitely without a rival,

Antichnaja Dekorativnaja Zhivopis' na Jūgė Rossii (Antique Decorative Painting in South Russia). By M. I. Rosmoveser. Folio, xviii + 537 pp. 98 Illustrations and full Index. Atlas of CXII. + I. Plates. St. Petersburg: Imperial Archaeological Commission, 1914.

The magnificent archaeological works published by the Russian Government in the fifties, sixties, and seventies of the last century, were part of the façade which Russia turned towards Europe. Their splandour of format and illustration was meant to be imposing, and the subject matter was thosen with a view to heightening the effect; we have various objects selected for their beauty or brilliance, but to some extent divorced from their setting; the duller things were not published, and the reports of excavations were cut down almost to unintelligibility. The directors of excavations were conscious of this,

and chinfly so themselves to find what would be welcome at Petersburg—still they did keep fair journals, and made plans and drawings; our dissatisfaction with their meagreness or inaccuracy should be tempered by gratitude for what they did at a time when such work was not duly appreciated. It was just pigeon-holed, and remains in the Archives of the Archaeological Commission waiting the patience of the explorer.

In the hunt for 'museum specimens' people paid little attention to fading remains of temb painting, or if they did send some record of them up to Petersburg, the anthorities there mostly disregarded them or published very indifferent reproductions. Exceptions were only made in the case of the Great Blimitsa, the vault published by Susar (C.R. 1872), that of Anthosterius (C.R. 1878), and in later times two numbers of Materials (vi. and xix.) by Professor Kulakovskij and one or two plates in the Bulletia of the Archaeological Commission.

It was by reviewing Kulakovskiij that our author first had his attention called to the painted vaults of S. Russia as offering a series of decorations extending from early Hellenistic to Christian times, and supplementing what we know from other sites, and so helping to put Pompoii and Rome into their proper relation to the eastern part of the Hellenistic world. His article in the Journal of the Ministry of Public Instruction, St. Petersburg, May, 1906, did much to clear up the matter, and his study, Hellenistics.

Roman Architectural Landscape, was in a closely allied field.*

In this book he has given as all possible pictures and descriptions of the remains of wall-painting from S. Rossa. For this purpose he had all the chambers of which the situation could be recovered, respond, sometimes more than once, and the paintings copied and compared with the older drawings. In other cases search has been music-cossful, and he has reproduced older material mostly inaccessible up till now. Townty-three of his plates are coloured, so the old magnificence of the Archieological Commission continues, but in the service of a more accentific spirit. The list of plates is made out in French as well as Russian; it is a pity that a few pages of summary in French sere not added—their absence is my excuss for the form of this notice. After the description of each chamber, illustrated by all necessary plans and sections, we have a discussion of the paintings, their style, their interpretation, and their date, with analogues in other parts of the ancient world; but the author promises a second volume in which these comparisons shall be more completely worked out. The positions of the tombs is shown upon excellent plans and views of Kerch (Pfl. L.-III.) and Chersonese (Plan Pl. CII.).

To make these splended plates more intelligible I give the dates to which Rostovtsov inclines to assign the most important tombs, with a few words as to their paintings, their place in the development of the set, and their subjects. In the Great Bliznitas (pp. 10-29, Pll. IV.-XI., late fourth century s.c.) we have very slight painting after the manner in which marble buildings were treated. Vasjurin Hill (pp. 30-69, Pll. XI. 2-XXIV., c. 300) shows the stage which procedes the first Pompaian style, comparable to one or two early booses at Deles, Magnesia, and Priems: there is a low plinth, orthostatae, 'Deckschicht, main wall-space coloured a fine red, cornice, and is the free space of the osifing, as it were, a carpet or awning suspended. The plana of these two barrows are specially welcome.

Rostovies gives a full hibliography of each tomb at the sail of his notice of it; — also the notes in my Septemas and Greeks, up. 207-321. I must apologize for making such a reference to my own work, but it is the only accessible account of the matter? It is largely based upon Rostoviese's article mentional below, but now requires not only additions but mustantial corrections; working necessarily at sound-hand, I was led astroy by my authorities, e.g. the chumber opened by MacPherson is the

same as that seen by Becker in 1852; the Kroson my p. 317, f. 227, owns his breeches to the franglataman Gross: the chamber opened in 1968 is shown by a r.-T. police to date a 300 s.c.; on my plan of Kerch, p. 582 f. 344, the Pygmy tomb should be just N. of the 'Sagar Loaf'; ou p. 565, f. 345, Rooms V., VI., VII., are not part of the Roman Baths but of Hellenistic houses.

^{*} Trans. Russ. Arch. Soc. Class. Sect. vi. 1908; re-issued in German, Leipzig, 1910.

In another touch of about the same date, found at Kerch in 19083 (pp. 70-82, Ph. XXVI., XXVII. 5, XXVIII.), the scheme of decoration was suggested by scade brick construction with horizontal beams in the wall; its frieze is remarkable for the garlands and aryballi represented as hanging against it.4 To the same period is referred a tomb at Anapa, of which the wall-painting imitates construction in murble blocks, with a good cornics (pp. 83-86, Pll. XXVII. 1, XXIX.-XXXI.). All these early tombs find their nearest analogues in Asia Minor or in Macodonia : Alexandrian examples, such as those published by Thiersch, stand further off, as do also the latest Etrascan vanits. It is a question whether they are not dated a little too early. After an excursus upon the summerous unpainted tomb-chambers built of solid blocks of stone and roofed at find with Egyptian and later with true raults, and upon their development in Hellenistic times (pp. 98-112, Pll. XXXII.-XXXVI., mostly Juz Oba and Anapa), our author treats of fragments of painted plaster from houses excavated at Kerch in 1898 (pp. 113-130, Pit. XXXVII.-XLII., LIL 2-4). They may be put at about 200 n.c., being the closest analogues to houses at Dolos, Prione, &c., also to the first style at Pempoli, but free of the Alexandrian influence that appears there: something of the same sort appears at Olbia (c. pp. 125 spg., 437). Other domestic fragments are in moulded stucco in the style of the Had century a.r. (pp. 131-136, Pil. XLHL, XLIV.). To about the end of the second century a.c. belongs the Pygmy tomb (1832, pp. 137-149, PH. XLV., LXXXII. 1, 2), dated by vames with inscriptions like those from Hedra, and to the first century n.c. that discovered in 1852 (pp. 153-160, Pfl. XLVI., XLVII.) and reopened by MacPherson. They are the first examples in which figures are introduced into the Innettes left above the cornice by the slope of the root. The walls are painted to represent solid blocks crowned by a cornice; in the top course the atoms are treated as pauels offering fields for decemtive birds and aprays and metope-like contests of pygmies and emnes. So we come to an important group round about 1-50 a.p. in which these features continue the vaults of Alcinus, son of Hegesippus; Anthesterins, son of Hagesippus -perhaps brothers and 1891 (pp. 161-198, Pll. XLVIII.-LV.). It is noticeable that there is here a complete divergence from Pompeil and its 'architectural' style. Next, dated by its contents, comes Zaitsev's vault (1895, pp. 190-226, Pil LVI-LXL, very closely connected with the former three; but the blocks have disappeared. and in the criling a new element begins to come in, the floral style : garlands and aprays are a great feature, while leaves and putals are strewn over the backgrounds; in the fully developed floral style all symmetry of arrangement is lost, and the only architectural trace is a plinth and a degenerating cornice, e.g. vault 1873 (pp. 227-243, Pil. LXIII.-LXV.) of middle second century 4.1., and Somens (pp. 244-252, Pl. LXV. 4), late Hnd century, As the published coloured pictures? of this last are quite satisfactory, Rostovoev has not repented them : but small line illustrations would have been a convenience to such as had them not at hand. The floral style Rostovisev regards as more particularly Eastern in origin, perhaps Syro-Palestinian, or even ultimately derived from the asymmetrical decorations at Tell-el-Amarna. He remarks on its analogy to the decoration of glass manufactured in those parts; of this he gives good examples on Pt. LIX A. It is in strong contrast to the stiff architectonic or textile lines which were nearly always prevalent in Western Hellenism, e.g. Pompeii (pp. 217-223).

Parallel to the floral series runs one in which the decoration consists in an imitation of marble incrustation forming geometrical patterns. When real marble blocks came to be imitated by a marble veneer, the forms taken by the latter were freed from constructional necessifies, and in its turn the painted staces imitation of such veneer developed more complicated designs: its general application was to a warmscoting divided into panels by

Sare where they have inscriptions bonds are referred to by the year of their discovery or cles by the names of the ground-bradfords or of the first describers.

^{*} Cl. Rantivessy, * A proposite di una tamba H.S.—VOL. XXXV.

dipinta di Canona, Nespolio, 1. fass. 1.

Of Negpelis, loc, cit.

J. A. Kulakovskij, Materials for the Arch, of Buscle (published by the Arch. Comm.), xix.

lonic columns, each panel having a scheme of rhombs and sircles inscribed one within the other, all formed of contrasted marblings. This increstation style hardly occurs alone, the second chamber of Febistein's vault (1905, c. 100 a.n., pp. 260-271, Pil LXVI -LXX.) is the purest example of it, but there the first chamber has the old masonry mutation, the third apparently the familiar scheme of a hanging between pillars in other examples classed under this heading either other elements were present (1992, p. 272,

Pt. LXXI.) or very little was left (1884, p. 280, Pt. LXXII.).

Most of the veults from the end of the first century on, Ashik's (pp. 346-375, PR LXXXVII -XCL, the most elaborate of all, but for it we are still dependent on the old imblication, here reproduced), and the painted succeplagus that must be classed with is (1900, pp. 376-389, Pil. XCIL-XCV.), through the early part of this second century (1875, pp. 283-292, Pll. LXXIII.-LXXV.) to about the middle of it. Stasov's (1872, pp. 293-345, Pil. LXXVI.-LXXXIV.) have the increated wainscoting, but above it reigns the flucal style. The latest tolerable vault at Kerch, that of Soracus above mentioned, is purely floral, and this style seems logically the most advanced, but us between the two principles the question of succession in time does not come in, for the increstation appears in the Christian vaults at Chersonese. The mutual relations of

all these a.is. vaults are summed up on pp. 374-375.

The figure subjects, usually placed in the luncties above the cornice, may be classified at decorative and religious, the latter including genre-scenes, mythological figures, and apotropacic subjects. The genre-scenes are really scenes from the life of the here to whom the chamber is dedicated; the commenced is the so-called funeral feast, next come the hero on horseback setting out with his servant, and the hero's wife and children. These are also common upon the contemporary grave-stelae. Restovtsev points out that this pescural scene gives place at the emi of the first century a.p. to scenes of combat, and thinks this corresponds to a removal of barbarian pressure upon the Bosporans, due to the strival of the Alans, but I rather doubt whether the Bosporans ever land a really peaceful time. These scenes of great importance for the costume and arms of the Bosperaus and their adversaries—are compared with reliefs from S. Russia, from Trajan's Column and the arch of Galerius at Thessalonica (pp. 326 app., Pil. LXXXV., LXXXVI.). Restortsey refuses to believe in the men in quilted said riding side saddle as shown in Ashik's drawings (Pl. LXXXVIII, 2). Other scenes are connected with the funeral occumonies, such as the great processions in Ashik's vault, the musician in the same, and the musicians in the 1900 painted coffin, which has also the very interesting scene of a painter preparing the funeral portrait; this seems to be the only known representation of a painter using the the encaustic process, it shows his colour box, spatula, portable brazier, and easel, with specimens of his work framed and unfvamed. hanging on the wall (Pf. XCII. 1). 'The gladietors in Ashik's vault perhaps are present to commemorate games celebrated by the dead man, probably a king of Bosperus and high priest of the Augusti.

The commonest religious scene is that of the rape of Percaphone (Hegssingus, Zautsey, Ashik : Pil. XLIX, I, LVII., LXIV 4, LXXXIX.). The representation in the first agrees with the Orphie hymns (p. 165); in the 1873 vault we have her return (Pl. LXIII.) : in Zaitsev's a head labelled Dometer is painted upon the ceiling (Pl. LVII.). and perhaps this should decide us to call that in Alciums (Pl. XLIX, 2) and even the Great Blizman (Pll. VII. 2, VIII.) Demotor rather than Core; our author is rather inconsistent with regard to the latter. Elsewhere we have Hermes and Calypse (Zaitsev. Pl. LIX 2 3) or some other goddess of the underworld; naturally all the representations are chilhonic, even Apollo and Artemis (1875, Pt. LXXIII. 5). In the 1891 vault we have not so much Sarupis and Isis as the hero and his wife swrifeing to some such chithome pair and in the act of becoming one with them (Pll. LHL 1, LHL 1), and facing them Agathodaemon and Tyche (Pl LIV, 1, 2). The whole cycle is regarded as going back to Ionic art through Anatolian Helleniam. The apotropacic element is chiefly noticeable in the later vaults, grotosque dancing pygmies, Gorgon heads, bullowing

beasts, and the like.

Finally, a group of eight vanits (pp. 401-434, Ph. XCVII.-Cl.), in which descration has come down to the very simplest scheme of geometrical lines and figure work is even worse, is put down to members of Sabazistic societies perhaps in the third century. The connexion with Sabaziste, mainly based upon the eagle on Pl. XCVII., or with the well known Bosporan religious societies is not very obvious: the degradation is certainly far below that of the latest inscriptions from Tanais; but similar deterioration in coma in the third century might serve as a parallel.

At Olbia the only decorative painting is the Hellenistic house painting already spoken of and a pair of apotropacia figures in one tomb-vauli (pp. 436-438). At Chersonese nine chambers with painting have been discovered, all with waimseeting in the incremation style. One, of which only very insultisfactory sketches are extant, is referred to the latest pagen period (pp. 442-448, Pl. CHIL); the others (pp. 449-507, Pll CIV-CXII.*) are all Christian in character, and Rostóvinev would be inclined to see in them the tembs of the first missionary marryrs of which Chursonian legand speaks. It is certainly curious that their style is the 'dry,' stiff style of Early Christian work in Syria and Palestine, quite unlike the 'piley' character that Bosporan art received from Asis Minor, and that it is to Hermon, Bishop of Jerusalem, that the Chersonian Church traced its origin.

As the dating of the tomb-vaulta depends not less on the objects found in them than on the style of the paintings. Rostovisev has had occasion to discuss and figure various things which lie outside the range of his immediate subject; such are the pottery, stone tables, horse-gear, and chariot in Vasjurin's Hill (Pli. XVII. XXIV.), the candelabrum, glass, and sarcophagus found in Zaitsey's vault (Pli. LX.-LXII.), with others that illustrate them; but he has refrained almost entirely (exceptions, Egyptian awning and tomb, Pl. XXV. and soffin, Pl. XLVIII. 2, and the reliefs, Pli. LXXXV., LXXXVI.) from illustrating non-Russian material in the hope that it will come into his second volume, which will evidently treat of anoient decorative painting as a whole, and link up the familiar styles of Rome and Pompen with the remains in Africa and Egypt, Palestine and Syria, Asia Minor and S. Russia.

The drawings of Messers, M. V. Pharmakovsky and M. I. Skubetov are so important a part of the book that they should have their share of praise; but this does not detract from the credit due to the author, whose patient energy and thoroughness, joined to complete mastery of all comparable material, are apparent throughout the book. Professor Restovtsey has given us a good example of how a series of monuments ought to be treated.

E. H. M.

The Nomads of the Balkans, an Account of Life and Castoms among the Vlades of Northern Pindus. By A. J. R. Waoz, M.A., and M. S. Tromesos, M.A. Pp. 332; 42 Illustrations and 2 Maps. London: Methods & Co. 15s.

The title of this book hardly does it justice, for its three hundred and old pages not only describe the life and manners of the Vlachs, but give also an account of the geographical distribution of their settlements, a sketch of the little that is known of their history with some very judicious remarks on the different theories of their origin, and an account of their language with a short grammar, a vocabulary, and texts and translations of some of their songs and folk-tales. The book was well worth writing. The assential Vlach leads a normal life, spending the summer in his mountain village with his flocks and the

"The lattering to PL CV. is wrong : I is the

celling of the 1853 tomb and 3 that of the 1909.

³ z. literature cited in Sopthern and General, pp. 628-625; also Cumont, Rev. de Prince, publ. de Beig (Suppl.) 1897; Marce Reige, 1910, pp. 55 app.

^{*} This is certainly on argument against Franko's rejection of this tradition, v. Southons and Greeks, p. 531.

winter in some lowland town. In the mountains he remains himself, but in the towns he falls under Greek influence, gives up his normal ways for a settled life, and soon becomes completely Helleniaed. By this process, an invitable result of political circumstances and of the fact that the normal life does not suit modern conditions, the Viache are being gradually absorbed, and this description of their disappearing way of life by two sympathetic students will always be of value as a first-class source of information. In all who are interested in Balkan politics the account it gives of national propagation work and its connexion with brigandage and the practice of hurning the achools and houses of the opposite party is well worth careful thought.

The authors spent most of their time at the large village of Samarina, and have made the description of life there she centre of their book, treating the other villages more briefly. This description is well done the close and full details of Vlack life, domestic, pastoral, and industrial, give a strong impress of reality to their work. They evidently know and like the Vlachs and their language, and their obvious planeaus in their subject makes the back very planeau reading. Commuting as it does almost entirely of fresh, first-hand accounts of things seen and full, it is really a book of good faith, and the motto from a Vlach folk-tale put at the head of one of the chapters might have been used for the whole book: "I know a tale, I have told a tale, how well I do not know, but I have not descrived you."

The chapter on the grammer probably suffers from compression. The present writer, however, who knows no Vinch or Roumanian, applied a practical test to it, and found it and the equalidary sometently full to enable him to make a translation of one of the folia-tales given in Appendix IV. The statent of Romance languages is likely to find a good deal new in it; for general linguistics and the question of the influence of one language on another, the remarks on the affect of Greek on Vlach phonetics are of especial interest. *Our language is the most upsafe-down of all is the way in which an old Vlach woman summed up the case.

A few small points may be instead. It is risky work wanteding majort texts collected by others, but in the Greek texts of the songs given in Appendix III., one which occurs three times at the beganing of Song 3 on p 278, and siders, back, in him 5 of Song 7 on p 279, look like slips for wid and siders, and ra mesopies on p. 282. Song 5, line 8, cannot possibly mean, as the translation on p. 163 runs, 'the wine is drunk,' but should surely be corrected to remembered. Anothly, repeating the sense of decount, so that the line will run; sores, Theorems, Aposton, soften remembered, and construe, Su dozes, George, quality, of dozes humbly.

The illustrations are from the authors' photographs; they really illustrate, and show the Vinchs as a remarkably bandsoms people. Lastly there are two maps—one a general outline of the Balkans, to show the distribution of the Viach settlements, and the other a map of the Northern Pindus, most ingeniously shaded to show the mountains in relief.

R. M. D.

The Principles of Greek Art. By Penov Gameson. Pp. avii + 352, with 112 Illustrations. New York: the Macmillan Company, 1914.

Prof. Gardiner's admirable (framewor of Greek Art was published by Mosers, Macmillan (London) and the Macmillan Co. (New York) in 1995. The present work, which is really a second educion of the one just mentioned, has the imprint as given above; the London firm only appears on the half title. The change of title to a more high sounding form is not commuted, as aught be supposed, with the apparent increase of trans-Atlantic influence. Prof. Gardiner says the old title was minumeratood; but we liked it, and it suited the severe matter-of-fact style of the work, the secons forms of his views, besides being a continual process against the fact that the latest developments of modern art are appear grammaticum; whereas now all the writtens on art are (or at least until the war.

drowned their voices, were) declaiming about the primaples of their particular -som-However this may be, the book has been largely re-written, and two new chapters added, as well as a much-needed index. The author hopes that his book will help to counteract the danger that, owing to the decline of Greek studies, the immense value of the legacy of Helba to the modern world will be underrated. It is to be feared that no amount of writing of books will counteract this tendency; but the assessatory fact running that we have the legacy, and nothing can take it from us. If the world is ceasing to find new impiration in Hellas, it is because it has, for the time at least, absorbed all that it can from that source. A new Remissance may come and rediscover the old fountains. -Of the new chapters in the book, one deals with the Home and the Tomb, the other with Portraiture. The latter is an excellent corrective to the glerification of Roman pottraiture, which is to Greek as Florentine is to Venetian. The starement that when a personage is represented on color we are able with certainty to determine his features is surely a little too sweeping. Let Prof. Gardner take the hoterogeneous series of portraits on come of Antiochus the Great and determine his features therefrom. Again, we headare to indieve, in the sense that Prof. Gardner would have us, that in looking at an early Greek portrait we discern first of all that the person represented is a Greek, next that he is a Dorian or an Athenian, then that he belongs to the class of poets, or statesmen, or philosophers i and only on a closer inspection one finds what belongs to the individual. This does not seem to be entirely true in the sense that the tireak artist was careful of the type rather than the individual, so most critics have supposed. If an Attic sculptur was representing a Dorian, or a Dorian an Athenran, we fancy the critic working on Prof. Gardner's lines would be rather at sea. And if Pericles had been represented without his helmet, should we have guessed him to be a strategor | As to Europides, Prof. Gardner admits that we should naturally take him for a philo-opher; but, since he was essentially a philosopher-pool, that is perhaps one to Prof. Gardner. The point, however, is that just as the greatest portrait-painters, Titian or Rombroudt, completely transmute the personages they portray, revealing there in an entirely new light-which the ordinary person, who prefers Moroni or Hals, calls telling us smuch move of the artist than of the sitter, -so the Greek portrait-sculptor, before the Hellenistic period at least, always expresses the individual in terms of his ideal. He attains a higher truth, a nobler expression, but it is not surprising that the generalverdict is and always will be in favour of the Romans as portrait-sculptors.

Zeus, A Study in Aucient Raligion, By A. B. Cook, Vol. I.: Zeus, God of the Bright Sky. Pp. xliii + 885. With many Plates and Illustrations in the Text. Cambridge University Press, 1914.

Various reviews of this work have already appeared, and in more than one we seem to have met with the remark that one cannot see Mr. Cook's wood for his trees. That may be true; but it has to be remembered that one does not always want to see the wood rather than the trees. People who make it possible to do that so often leave and the mean interesting or important trees from the point of view of the person who is sindying arboriculture. Whereas Mr. Cook is careful to put in all the trees one can possibly want and a few more, just to make sure), and leave the wood to emerge on the senses of itself in its own good time. Many of us prefer this method, having rosted district of any generalisations about the assential nature of Zeus or any other god, but being keenly interested in details which help to explain ancient life, or monuments, or literature. Thus whether Mr. Cook, in the 800 pages of his first volume, proves his general emclasions or not, let those who are competent to take in the universe at a glance decade. We have a shrewd magnetic that Mr. Cook himself does not care so very much about the conclusions, as long as he may wander at will in the unbagious paths that turn off from his high road I and we believe that for him, as for us, the means justify the end-

Otherwise, why should be spend seven or eight pages, mostly of small type, in piling up examples of the supersession of pagen by Christian cults in order to minforce his theory of the replacing of Zous by St. Elias? For the purposes of the argument these analogies could have been stated in half a page; but we are glad that Mr. Cook let himself go, and regard it as a sign of weakness on his part that at the end he pulls himself up with "Confining our attention to the mountain cults of Zens." A similar apology occurs after a page long description of a vase with the defeat of Marsyas, where Zens appears, though he has little to do with it. These words are an unworthy concession—payers a liquire.

So far as the accumulation of detailed information is concerned, the book is probably one of the most learned that have been produced by classical scholars since the seventeenth century. And its learning is distinguished by intelligence from the mere Material-Samuellanger with which the cult of the thous in recent years has made us painfully familiar. Mr. Cook really tries, and generally with success, to take a fair view of the evidence. It is true that he occasionally blurs it, we do not like that plan of a labyrouth imposed on the 'theatral area' at Caessus, although we are warned that it is a contamination. And he would not be human if he did not occasionally full to see how weak his argument is. The 'labyrinth-pattern' (a torm, by the way, which begs the question) which occurs accompanying the type on certain coins of Asia Minor may be, he thinks, not a graphic sign of the macandering river, but an ancient religious symbol akin to that which represented the labyrinth of Chosaus. But he does not ask himself why, if that is so, it only occurs at cities situated on the river Macander. Or take the objects which he regards as cult-objects of the inner sanctuary at Hierapolis. We can see, he says, how exact is the description given by the pseudo-Lucian . 'It has no shape of its own, but hears the form of the other deities. Yet the object in the shrine between two scaled delties is, as Mr Cook sees, uncommonly like a Rouan standard; and that, indeed is exactly what it is. Everybody knows that the Roman standards were placed in an undenta in camp : and in a town they would be placed in the chief temple. At Currhae two of them are represented in activities beside the bactyl of the moon deity, the god Sin, all in his tample. Again, to say that, because Theopompus describes beasts and men on Mount Lykalim as costing no shadow to part recipeso, therefore there was a divine light on the summit, is to ask too much of the plain words.

It is very difficult to find any side-issue that has escaped Mr. Cook's eye, and has and bean followed out in all its maxy ramifications; and he who thinks he has found such an omission generally discovers that the thing is birking in some footnote. That is probably true of some of the small points now to be mentioned. In connexion with the globe of Zens, what is the significance of the little globe sometimes placed at the point of imperial basts? Such a small globe is also placed at the point of the bast of the Zens of Neapolis in Samaria. The type of the god seated on a glolic was adopted by Christian art , and it would seem that we have a relic of this even as late as the ninth century, when Christ appears in a peculiar manderla, with an upper elliptical part, and a lower one, circular, derived, it may be, from the globe (see the Burnington Magazine, vol. 22vi. p. 241). We hazzed the suggestion that even the upper part of the manderla is derived from the arched mantle of the sky-god. But the point wants working out. As regard-Zens in Gaza, Mr. Cook makes great play with the Yahu com. But, taken in its place with all the other come of the same class, it provides no evidence of the existence of the milt of that god in Game itself. The types do not appear to be local. But a local Gazaaan Zens whom Mr. Cook apparently omits to mention is 'Abbinos & 'Abbon, the Ba'al of fruntfulness, about whom he will find a qualation after his own heart from Methodius in the Etymologicum Magnum. Mr. Cook is interesting on the mountain as the throne of Zeus, but while he unker use of the empty throne of Zeus at Olba, he apparently does not mention the very interesting throne at Diocaesures, with a thunderhold sitting on it, and little lions on its posts; not to speak of the alleted thunderholt on a surhismed stool at Seleucia Pieria. Finally, as Mr. Cook likes to accomulate quotations. here is another for the sun as the eye of heaven, from the Guernal of Secundus : Ti force Thios : Offerman offerhands x + A.

This notice must not close without bearing witness once more to the deep impression which Mr. Cook's profound learning must make on everyone competent to judge. Two such books as this and Mr. Minn's Scothians and Grocks, issuing hard on each other, are indeed a triumph for the anthors and for the Cambridge University Press.

G. F. H.

Essays and Studies presented to William Ridgeway on his Sixtieth Birthday. Edited by E. C. Quanars. Cambridge University Press, 1913.

Of the 650 odd pages of this giant of Festschriften, some 280 are included in the section of Classics and Ascient Art; and from these must be deducted the two contributions dealing with affairs of Egypt and the winged monster which Sir Hercules Read would father upon the art of Bactria. The remainder of the book is divided between Mediaeval Literature and History and Authropology and Comparative Religion; but in the latter of these two sections occurs much of interest to readers of this Journal, as, for example, Prof. Elliot Smith's lengthy derivation of megalithic culture and, more directly, the contributions of J. Rendel Harris on the cult of the Dioscuri in Byzantium and the neighbourhood, and of F. W. Hasluck on magical properties assigned in the Levant to come of Constanting.

Tearing ourselves from the alien fascinations of cance-building in the Torres Straits or kits fishing in the Java seas, we briefly signal the various articles in the classical section. R. S. Conway (The Structure of Assent VI.) discusses the coisons of the equisides of Miserius, Palinurus, the Ivory Gates, and Marcellus. J. I. Beare (The Order of the Platonic Dialogues) suggests the development of the theory of feeling as a clue to dating. L. C. Purser (Notes on Cicero, ad Attenue zi.) gives bextual emembations; blessed above all others is an editor of the Epistolos-where grammar fails, Cicero's matrimousal escapades pull him through. H. Browne (Aristotle's Theory of Poetic Metre) criticises Posters 1, 7-12. Ε. Harrison (Δία Δίθων and Iovem Lapidem) examines the evidence for the identity and meaning of the two phrases. A. S. F. Gow (Elpis and Pandora in Hesiod's Works and Days) dissects the legend; in the original story Pandora had no share in the jar. G. F. Hill (Was it the Mint of Smyrna) publishes a heard of worn come and blanks, apparently the sweepings of a mint. A. W. Gomme (The Ameintal Name of Gla) rejects Nosck's identification as Arne, and maintains that the legend of Phlegya or Phlegyantis, as given by Pausanias, accords with the facts of excavation. J. T. Shoppard (The Perthension of Alkman) translates and interprets vv. 36-101. J. E. Harrison (Sophokles, Ichnesiae iz. 1-7, and the spagesor of Kyllme and the Satyre) discusses primitive underground dwelling-places and their survivals in ritual or drama. On similar lines F. M. Cornford (The drapper and the Elementon Mysteries) discusses subterranean store-houses and derives deapyd from seed-corn. R. M. Dawkins (A. Re-cut Gam from Molos) describes a lautoid stone with a Christian charm out over a seventh century animal design. P. N. Ure (An Early Black-figure Vase from Rhitsons in Bocotia) publishes a vass with an interesting representation of the contest of cranes and pygmies; an illustration appears to lisve been omitted here. D. S. Robertson (The Authenticity and Date of Lucian De Salfations) argues that the dialogue was written at Antioch between 162 and 160 a.n. E. M. W. Tillyard (An Attic Lekythos from Sicily) republishes from the Hope Collection a black-figure design of Heracles, Possidon, and Hermes bishing. J. P. Mahaffy (The Arithmetical Figures used by Greek Writers during the Chasseal Period) makes three numerical anumdations in Thueydides and one in Herodutus: O. C. Richmond (The Tamples of Divise Augustus and Apollo Palatinus on Roman Coins) makes important residentifications, which may be commended to the Roman Society. A. B. Cook (Neglehouseryin) were in the slewing scene of the Bouls a reflection of the cuit of Hera at Argos. W. M. L. Hutchinson (Two Notes on Neuron II.) explains Com is 'Accorde and emends the text. W. H. Duke (Hernoloides the Critic) edits three fragments of the Urpi rise in The Eddade Hideos of this

writer, whom he places between 270 and 200 a.c. J. H. Moulton (Notes on Iranian Ethnography) treats of early race-migrations. R. C. Basanquot (Some Axes and a Spear) suggests an Italic origin for certain early axe-heads from Achaia, and discusses antique spear butts. Included in the Mediacval section is a Byzantine inscription published by A. J. B. Wace. Finally mention must be made of the introductory Greek varies by Prot Harrown and the Versus Espelides of Prof. Tyrnell.

Mélanges Hollesux : Remeil de namoires concernant l'antiquité proque offert d' Mauries Hollesux Paris : Augusts Picard, 1913.

This volume, the work of twenty three pupils of the French School at Athans, was presented to M. Hollesax in commammation of his period of other from 1904 to 1912 as Director of the School. During these years the excavations at Delos largely occupied the interests of the School, and naturally essays on Dalian subjects form a large proportion of the contents of the volume. Space forbids more than a mention of the contributions of MM. Avezou, Phard, Courty, Plassart, and Gerhardt Poulson dealing with questions of Delian topography or architecture; M. Plassart's certain identification of the Jewish Synagogus at Delias should, however, from the nevelty of its subject, attractation of M. Schalhof writes on the chronology of Delian archors, combaling difficulties raised by a writer in this Journal in 1906, and M. Roussel collects inscriptions dealing with ritual observances in Delian calts. Of most general importance is the article of M. Vallois on 'Lee Pinakes Deliens, in which he sullects from opigraphic sources a mass of information on pictures and wall-printings of the Hellemstic age. While Delias is well represented, only one arricle deals with Delphi, that of M. Harzfeld on Enslaved Italians in Greece.

Of the remaining articles special attention may be dinwn to those of M. Berchmann, who contributes a reasoned and conservative criticism of recent work on Scopes, and of M. Charles Picard, who publishes a brouze relief of the rorse types from Colophon, and speculates on the probable Chaldesn origin of the type; noteworthy is also M. Adolphie Reinach's account of Niverstan of Athems, the sculptor of the Pergamone school M. Blum brings a black-figured vaso from Gela to elucidate the problem of the sex of the draped figure mounting a charies in the well-known relief from the Aeropolis of Athens, M. Cavaignac suggests that ancient tribute lists may yield indications of population, &c. M. Dugas contributes a study of Eretrian vases, and M. F. Mayence publishes fragments of Attic Loutrophord which are or were, in the University of Louvann. M. G. Nicole prints a new catalogue of works of art in Imperial Rione, and M. J. Pares a new collection of Rhodian amphora stamps. There are two apigraphic contributions the last degree of the Lagaine, by M. Lefabvre, a decree of Cleopatra and Cassarion dated to 41 s.c.; and an inscription from Didyma, interpreted by M. Gregore with reference to the Christian paraceutions M. G. Laroux discussors Syrian churches with side doors, M. Risour murble seats of honour in theatres or observers. M. F. Poulsen publishes a busi of a priest of Isis in the Ny Carleberg Glyptothek; and last, M. Vollgraf brings forward the ritual practice of removing sandals in explanation of the relief from the balustrade of Athens Nike at Athans and of some figures from the mot pediment of Olympia.

Aspects of Death in Art and Epigram. By F. PARKER WEBER. Pp. 461, with 126 Illustrations. Loudon: Fisher Union and Bernard Quaritoh, 1914.

This is the second edition in book form, much altered and sularged, of a series of articles which appeared originally in the Neuroscatic Chronicle of 1909-10. It aims at being an essay on the metital attitudes towards the ideas of death prevalent from Greek and

Roman times to the present day, and on the various ways in which those libers have affected daily life, as illustrated by epigram or minor works of art. The work is divided into four parts of which the introduction deals with the general philosophic or religious conceptions of death from classic to modern times. The second part tabulates the various aspects under which death, or ideas connected with death, have been viewed, illustrating thom largely from folk-lore, epigram, or general literature. The third part is muniscostic in interest, collecting and classifying some and medals of all periods which have been suggested by the various mental attitudes of the preceding section. The fourth part is similar to the third in arrangement, but is devoted to products of the minor arts generally. Greek or Roman pottery, genus, finger-rings of all periods, &c. The writer in his prefere disclaims any thought of exhaustiveness in his treatment of this isomography or of the literary evidence; but he has brought together a mass of material often quaint and strange, and what is rarer in a work of this kind, has known how to weld the whole into a very classing and readable book.

Les monuments archeologiques de la Galicie. L.—La colonie industrielle de Komplorece de l'Époque énéolithique. Albam des Fondles, Par C. Hanaczas. Léopol. n. d.

Turne is a topical interest attaching to this album of acneolithic autoquities, published as it is by a Lroff (Lemberg) professor and the Cracow Academy of Sciences; and the text accompanying the thirry-three plates consists of a resume in French, and description of the plates in German and Polish. The site is in the Galician administrative district of Zaleszczyki on the Duissber near Bessarabia, and has been excavated for five years by the author. The culture was treated by Knindi two years after the discovery in 1906 (Julicouch für Attertumskumb, vol. ii. (1908), p. 144, not p. 44 as stated), but his conclusions are here revised in the light of further discoveries. It is now believed to have been an industrial centre, not a group of thatched cottages; and the finds include painted pottery and the killiss in which it was fired, terracotta statuettes or idobs of both sexus, besides from weights and a few small objects of bronze, the date being at the latest about 1200 a.c. The statusttes are evidently allied in those commonly found in south-eastern Europe and the sistern Moditerranean area, but the leading feature is a mass of pottery fragments divided into three groups: [1] hand-made vessels of grey clay mixed with sand, the decoration contined to incised lines | some with flat bases, others deeper and provided with four feet. (ii) Pale mange pottery of remarkable quality, with rich deceration in one or none colours, principally black, red and white, in various shades; forms in great variety, including birds and animals' heads. Animal forms also appear in colour, together with scrolls and geometrical patterns of many kinds; and the human figure is sometimes represented. (iii) Fragments of good quality with designs in integlio. The statuettes also fall into three amin groups: (i) like a Herm, the upper part of the body carefully executed and set on a circular podestal; (ii) toeso with bird's head on a conical pedestal, which below takes the form of a lumma foot ; and (iii) a flat torso set on a pair of straight round legs with the feet joined. This neolithic civilisation shows many resemblances to that of Thessaly, which is somewhat earlier than that of the Daiester and Daseper basins, but evidently belongs to the same group; and its last or semediable phase ended at a time when central Europe was experiencing invasious no doubt connected with the Dorian descent on Greece. Many close parallels may be noticed in Finla's sumptuous volumes on the Bosnian neolithic station of Butmir, where the beautifully unted plates give a civil idea of the various wares. In the present volume the photographic plates are exceptionally slear, but there is no excuse for printing the text on paper still more sking than that used for the R. A. S. plates

Βιτί/ετζου Κορτάρου Έρωτόκριτος "Εκδοσίς πρέτικη γενομένη επί τῆ βάσει τῶν πρώτων πηγών, μετ' είστιγωγής, σημειώστων και γλωσσαιρίου, επό Στεφάνου "Δ. Σαιθουδίδου, εφόρου άρχαιο τήτων έν Ερφίη. "Η έπιστωίστανται προγματεία τοῦ κοθηγητοί τῆς γλωσσολογίας Γεωργίου Ν. Χαιτ'εδάκε περί τῆς γλωσσης και γραμματικής τοῦ Έρωτοκρίτου και Δετώ φωτοτωτικοί κίνοικε έκ τοῦ γειρογμάφου. "Εκ τοῦ ευπογραφείου Στυλ. Μ. "Αλεξίου, έπ "Πρακλείω Κρότης, 1910. Pp. είχχχχ - 784. Τείου 1ο drakhmai.

It is somewhat remarkable that so important a national poem as Erotokritos, which has anjoyed a wide circulation for more than two hundred years, should have had to wait so long for a scholarly edition. This want has now been definitely filled by Doctor Xanthoudides, who has given us a critical text, squipped with an introduction of nearly two hundred pages on the date, sources, and history of the poem, with notes, and lastly with a very full glossary. To all this Professor Hatzidakis has added a chapter on the East Cretan dialect in which the poem is composed. With these helps it is now possible with a fair knowledge of modern Greek to read Erotokritos without much difficulty. The list of misprints should have included a number of non-Greek words in the introduction.

The editor has based his tert on the British Museum MS, of 1710 and the first edition, which was printed at Venice in 1713. The second edition is a reprint of the first, and the innumerable later editions show a steady deterioration of the text, largely due to efforts to make the dialect more enally intelligible. The Venetian edition, however, preserves the Cretan pseuliarities, the printer having fortunately employed a Cretan editor. The same good fortune accompanies the present edition, for Doctor Xanthoudides has the advantage of being a Cretan and, though not from Siteia, the home of Kernaros, at least from as far east as the region of Dikto. The pour is thus written in his mother toughe, and it is not too much to say that only a Cretan could have given as such an edition. In unmberless cases his knowledge of the dialect has enabled him to restore the true text or to select the correct reading in a way impossible for anyone but a horn Cretan. The inguistic pseuliarities of the poem, its regular use of rhyme, and the fact that it was carried in MS by Cretan refugees to the Ionian islands and not printed until 1713, loss him to date it to the seventeenth century, and sariar, though not much earlier, than the taking of Caudia by the Turks in 1669.

The posm is a narrarive in the style of the communes of chivalry of the loves of the knight Erotokritos and the fair daughter of his feudal lord Herakies, the king of Athans. The adiror points out that in its close connexion with Greek popular pootry and its Frankish subject it is a characteristic product of daugeocomrogate Takkii. The borrow-

ings from Ariosto are particularly interesting.

Of the literary value of Erotokritos it is not easy for a foreigner to speak. In Greece it has the genuine popularity of a poem which represents the feelings and heart of the people, and this intensely satismal character is probably a bar to the foreign reader, who is only too likely, when confronted with his 10,000 and old lines, its long-winded speeches, and absence of literary distinction, to agree with the severy versics of Leaks, that very tew people would have the patience to read even one of its five books. However that may be, Erotokritos must always have the me small glory of being the national poem of Grete, and as such is well worthy of the pions care which a Crutau scholar has now devoted to the production of this monumental edition. The glossary alum makes the book indispensable to all serious students of popular Greek.

R. M. D.

Ein athenisches Gesetz über die eleusinische Aparche. Von Arver Elten. (Programm der rheinischen Friedrich-Wilhelms-Universität). Pp. 28. Boun : Marcus und Weber, 1914. 1 M.

The subject of this pamphlet is a mutilated Attic inscription discovered in 1908 on the site of the aucient Athenian Agora, published first in 'Aρχ. 'Εφ. 1910, I.E., and subsequently in Michal's Reusell, No. 1459, and in I.G. ii.-iii. ed. min, No. 146. Thus

the arrive subjects to a careful examination, in the course of which he takes occasion to discuss afresh the epigraphical evidence for the Athenian sometime of the fourth century a.c., (8 ff.), the publication of the laws sauctioned by the suppliers (16 ff.), the regulations regarding the lavy of the images for the Elausinian-deities and its employment (40 ff.), and emis by offering as a restoration of the text (54) which is certainly a considerable improvement upon that of previous editors. If we accept this as correct, the inscription records a law modifying that of Charremondes: the essence of the change lies in the fact that from 352 a.c. onwards the responsibility for the offering of the israppy at the Eleusinian suntuary was transferred to the Books, which in this matter was to be represented by ten elected liperceci by Sockly (34 ff.). The importance of the study of Artic legislation and the paneity of the epigraphical materials sufficiently justify this long and detailed discussion of the most recently discovered of those sources, and the care with which the task has been carried out renders this work a valuable contribution to Athenian lostory, alike constitutional and religious.

Les Civilisations préhelleniques dans le Bassin de la Mer Égée.

2ººº édition revue et augmentée. Rexe Dussaue. Pp. 418; XIV Pil.; 325 Figs.

Paris : Genthuer, 1914.

M Dussand has done well in bringing out comparatively soon a second edition, revised and augmented, of his Classications probablicationes. The size of the book is very much increased, and the number of illustrations also. War has dealt hardly with work on these subjects, and there are few of means who have the time either to read completely or to review satisfactordy a book of this size, and to appreciate M. Dussaud's work fully the time and become are mecowary which will only return with the papeng times of poscen-Nevertheless a necessarily hurried perusal shows that M. Dussent has now given his book a completeness which the first edition lacked in some respects, and it can be recommended as the fullest existing inscription of the pre-Hellenic civilization of Greece. The whole sauge of this civilization is described, and the author goes outside the Aegean basin, strictly secalled, to include in his work a description of the early culture and art of Cyprus, and adds to it an estimate of Aegean inflaence in Egypt and Syris. The addition of coloured places enhances the value of his work considerably, and the new maps are a great improvement on these of the first edition. All the latest results of excavation, such as the American discoveries in Crete and the German at Tiryns, are included in the book, which fully justifies its title as a description of the whole surly culture of the lands which afterwards were Greek, not only the strictly "Aggoan" culture which arose in Crote and the islands and esentually dominated the Greek lands, but also the originally distinct civilizations of Troy, of Northern Greece, and of Cyprus, We are glad to say that the book possesses an index, which is, however, purhaps rather curt and jejone in its references. So many French books, however, have no index that its presence here is something for which we are grateful. H. H.

The Excavations at Babylon. By Rommir Konnewsy. Translated by Acres S. Jones. Pp. xix + 335, with 255 Illustrations and Plans. London: Macmillan and Co., 1914.

This work is the English addron of Koldewey's 'Das winder systematic Rabylon,' published in 1913 with the object of giving a survey of the axcavations at Babylon, which up to that time had been conducted without interruption, but with very little publication of results, for over fourteen years. The same arrangement is followed in the English as in the German edition, the book being broken up into a series of numbered

sections of rarying length, such devoted to a particular mound or area of the site. The information thus furnished is often of considerable interest to the archaeologist, and, though no attempt was made to present the material in a popular or attractive style, the book has let in a good dual of welcome light upon what still remains to be done there. In justice to the translator it should be said that Mrs. Johns has evidently spared no putes in her rendering of a rather obscure German text into clear and intelligible English, while the publishers have left nothing to be desired in the matter of print and binding.

To the classical historian and archaeologist the main interest of the book undemondly lies in the attempt to reconcile the actual remains of the city with the classical tradition of its magnificence. How, for example are we to explain the puzzling discrepancy between the present position of the outer walls and the enormous estimate of the city's area given by Herodotus, or even that which we find in Ctemas? For Herodotus appears to have visited Babylon; and Ctesias was the physician of Artaserres Mission who has left a memorial of his presence there in a marble building upon the Kase, or discited Mound.

Koldewey is inclined to regard their figures as mot in themselves impossible, and he compares the Great Wall of China which he points out is just about twenty-nine trues as long as Herodotus essimate for the wall of Babylon. But the latter was not simply a frontier-fortification. It was an emclosing wall of a city, and a more apposite comparison is that of the walts of Nanking, which, as Professor Havernold has pointed out in his " Ancient Town Planning," is the largest city-site in China and the work of an surpline even greater than Babylon. Although the area to the west of the Euphrates has not yet been examined. Koldewey assumes that the city, in the Neo-Babylonian and Achaemenian periods, secupied an equal area upon that side of the river. But, even say ste complete circuit would not have extended for more than about eleven unies, a figure very far short of any of those given by Herodolus, Chesias, and other writers. Koldeway suggests that, as Ctesias estimate approximates to four times the correct measurement, he may have mistaken the figure which applied to the whole circumference for the measure of one side only of the square. But that would still leave the larger figure of Herodotus unexplained, and it seems prefurable to regard all such estimates of size, test as bassed on accurate measurements. Init merely as representing an impression of grandous produced on the mind of their recorder, whether by a visit to the city itself or by reports of its magnificence at second hand. Moreover there are substantial reasons, strategic and otherwise, for placing but a small proportion of the city upon the right bank of the Emphrates at any period of its history. It is true that the text of Hereslotus may be quoted in support of the contrary view, but that difficulty the excavations have now elemed up. The Euphrates changed its course, temporarily, during the Persian period, and for a time flowed round to the east of the main citadel; it returned to its old and present bed probably in the third century a.c.

Space will only parmit of reference to one other problem presented by the volume—the proposed identification of a subterranean vaulted building on the Citadel Mound with the famous Hanging Gardams of the city, the spender's requirement of Berossua, the spender's signer of Chesias and Strabo, the permits horts of Curtime Rufun. There are two main remoons which suggested the identification. The first is that hown stone was used in its construction, as is attracted by the numerous broken fragments discovered among its ruline. There is only one other place on the whole nite of Babylon where hown stone is used in bulk for building purposes, and that is the northern wall of the Citadal; and in all the interactor referring to Babylon stone is only recorded to have been used for buildings in two places,—the north wall of the Citadel and in the Hanging Gardens, a lower layer in the latter's reading, below the layer of earth, being described as made of stone. The second reason is the discovery, in one of the surrounding chambers, of a triple well, which can best be explained as forwing the well-shafts for a hydraulic machine constructed on the principle of a chain pump, the central shafts

aring as an inspection-chamber down which an engineer could descend to clean out the well or to remove any obstruction. The motive power was probably supplied by a

couple of heavy hand winches worked by gangs of slaves.

The finding of the well certainly strengthens the case for identification, which involves, however, many difficulties. Whatever scheme of reconstruction we adopt for the upper structure of the building, it is clear that the subterranean vanits can only have been used as stores or magazines, since they were entirely without light. And here a rather interesting piece of evidence comes in, the significance of which appears to have except Dr. Koldewsy. In the chamber at the heart of the only stairway leading to the saults was found a large number of tablets, and, since the inscriptions upon them relate to grain, we must assume that at least some of the vaults were used as granaries. But this is a use to which they could only have been put if the space above them was not a garden, watered continuously by an irrigation pump, as maisture would have been bound to reach the vaults. This objection seems to up to outweigh the correspondence in details, which, in space of differences in measurements, has been ingeniously drawn by the author between the architectural structure of his vaulted building and the texts of Cartins Rufus and Diodorne.

But, granting all Dr Koldewey's assumptions, it would have to be confessed that the Hanging Gardene have not justified their reputation. And if they merely formed a garden-court, as he inclines to believe, it is difficult to explain the adjectives appeared and pensilis. For the subterrances and sould have been completely out of sight, and, even when known to be below the pavement level, were not such as to excite winder or to suggest the idea of suspension in the air. One cannot help suspenting that the vaulted building may really, after all, be nothing more than the palace-grantry, and the triple well one of the main water-supplies for domedicuse. We may, at least for the present, be presented to hope that a more convincing site for the gardens will be found to the Central Citatial after further excavation

I. W. K.

Catalogue des Antiquités égyptiennes requeillies dans les Fouilles de Koptos, 1910-11. Par Abourne Reisaun. Pp. 132. Bertrand ; Chillon-sur-Saone, 1913.

M. Adolpho Reinach has published the majority of the antiquities found by him at Kopton in the form of an illustrated estalogue of them as they are exhibited in the Music Guimet at Lyon. The arrangement seems to follow no logical plan; as objects of all ages are placed in juxtaposition, and in the catalogue, while the rooms and cases are taken in order, the order of the numbers is not always followed and various numbers are omitted from the description. The catalogue therefore is not a scientific one, but is sort of mixture of catalogue, popular guide, and onlineary publication. The result is mostisfactory.

Of the objects described none are of first importance save one, a fine sculptured temple-wall of the XIIth Dynasty. But this, it is stated in the description, was much damaged by the native workmen who were employed to cut off the backs of the blocks, and in transport. One cannot help thinking that it would have been wise to have imported some Italian or Greek workmen from Alexandria or Cairo to do work which natives would

be sure to do badly.

There is a great number of fragments of scripture and other objects of the Gracco-Roman period, none of them, it must be said, of much interest. The Pharaonic objects are all of usual types, except one, the head and torso of a sistrum bearing priestess of the XVIIIth Dynasty.

Aus dem griechischen Schulwesen. Von E. Ziebern. 2º Auflage. Tenbuer: Leipzig, 1914.

In the second edition of this useful survey of Greek situational organisation Dr. Ziebarth has incorporated references to the natural which has been provided by fresh publications during the five years which have sinpsed since the book first appeared. There is sufficient of this new material to increase the bulk of the work by about a sixth the chief part of the additions is to be found in the fourth chapter, which deals with the relies of the schools which have survived in the form of buildings, lists and records, exercises, and so forth. The summary is practically complete, so far as we have rested it a few references to paper or ostraca might be added, but they are not of special importance. If this very clean and well articulated skeleton were clothed with a little flesh of imagination, we might have an attractive in well as accurate presentment of Grock education.

The Eastern Libyans. An Essay by Onno Barrs, F.R.G.S. Pp. xxii+298, 12 plates and 100 figures in text. London: Macmillan and Co., 1914, 42s. net.

The Eastern Libyans' appears to be a magnum space it is a vast book in external appearance, but when we look at its type we see that it is not so tremendous a work as it seems. The printing is very fine to see, but it is surely unnecessity to produce a book of this kind in this large foreset and in type apparently intended for the use of a superior generation. The expense of the book must have been materially increased thereby, one would think, and needlessly so. An 'Essay' costing forty-two shillings is expensive.

After this initial gramble at an expensive expansiveness which is hard on the student, we may proceed to examine the book itself. The author says in his preface that "this essay [as he will maint on calling it] both suffers and derives advantages from the fact that it has been written in the field. The disadvantages of being often out off from all libraries are too obvious to be dwell upon. I am much to be blamed, however, if there do not appear in the following pages some traces of the opportunities of which, by being in the Levant, I have been able to avail myself. That the author has travelled and worked in the Levant (chiefly in Nubia) we know, and the effect of autopsy can easily be seen in his pages. This gives the book much of its value. But how he managed to write it "in the field" without taking a pretty extensive travelling library about with him we do not know. The references are immunerable. As a book written "in the field" the "essay" is a love to force.

And it is written rather in the style of a loar de force. There is a great deal of dogmation in it of the 'learned juvestile' kind, reminding us of a German doctoratethesis. As, we notice, another reviewer has remarked elsewimre, in dealing with the nugalithic monuments of Libya Mr. Bates trusts a unich disputed theory as if it were generally accepted. How, too, can the great broadsword of the Shardana (of which the first actual example known has lately been published by Mr. Ifall), he called 'South European | It is of a type entirely foreign to Southern Europe, and indicates that the Shardana, whether they lived in Sardinia or not at any time, originally same from the North into the Meditterranean area. In the chapters on the Libyan language and Libyan religion we are continually being told what was so, without much regard to the very shadowy character of the evidence. Why, boo, is the account of Cambyses expedition against the Oracle of Ammon 'probably apomyphal'! It bears every mark of historical (rath. And to tell on that the other Herodotuan story of the war of the Psylli against the wind is 'certainly apocryphal' argues a certain want of himour in our instructor. Mr. Bates would agree with us, we are sure, in the serious conclusion that the story of Jack the Giant Killer is also "certainly apocryphal."

The most valuable thing about all this purely Labyan part of the book seems to be its collection of references. The matter with regard to which Mr. Bates is most informing as that of the relations of the Labyans with Egypt. Here his Egyptological knowledge makes his conclusions worthy of caroful attention, and his account of the results of Nabian excavations, in which he himself took part, is very interesting. We imagine, however, that his identification of the Nabian "C-Group" people as Libyans is not likely to be accepted without question.

The illustrations are largely of Egyptian origin, and seem to form a very complete collection of the Egyptian pictorial evidence as to the Libyans. The photographs are very good and are specially well reproduced. The publishers are to be congratulated on the turn-out of the book, though, we repeat, we think its magnificence unnecessary.

PRINTED IN GREAT BRITAIN BY
RIGHARD CLAY AND SONS, LIMITED,
BRITAINMAN STREET, STANFORD WINDEY, A.R.,
AND DESCRIP, STANFORD

ON A HISTORY OF GREEK COMMERCE.

In electing me to the Presidency of the Hellenia Society you have paid me the highest compliment to which any British Hellenist can aspire. It is an honour which I accept with all gratitude and, I can assure you, with all humility. It is impossible for me to look back at the names of the distinguished men who have already held the post, without reflecting that I am not of their rank—I am by profession neither a great academic teacher nor, like my old schoolfellow and friend Six Arthur Evans, whose position I am prematurely called upon to fill, a man who has devoted his whole life to the advancement of archaeology. It would be an importanence in me to praise the work done by Six Arthur; it is on the lips of all the learned world.

When I think of Evans as we knew him at Harrow, I remember him in a double capacity. First as a scientific observer, by inheritance, as I need not remind you, from his distinguished and many-sided father. Whether it was a question of coins, of flint implements, or of natural history, Evans was always the leader of our school Scientific Society—matched only in some points by another friend, too soon lost to science, Frank Balfour. I remember one small matter, which always strikes me as characteristic—that Evans exhibited at one of our meetings specimens of leaves of plants from the carboniferous speech which he had picked out of the coal-scuttle in his room. I have often since scarched my own coal-scuttle, always without result. That makes me feel the gulf which separates the born scientific observer from the amateur like myself.

But it was not only in science that Evans took the lead. He was our school poet as well. We competed once for the prize poem; Evans won it; I was nowhere. And it is because Evans is not merely a trained observer, but has the great gift of imagination, that he has been able not only to collect material but to sift and arrange it, to see its place in history and to present it to the world with that literary touch which goes so far in winning the assent of the learned men of every country.

Sir Arthur has told us that the Presidency of this Society has proved a serious addition to the immense work which he has on hand—the publication of the mass of his Cretan discoveries. When he resigns on that ground, we cannot but accept his resignation. Highly though we esteem his

A358 *

Presidential address delivered to the Hellenic Society, June 23, 1914.

presence in this chair, yet it is clear that our own wishes must give way to the superior claims which the whole scientific world has upon him: and I should be glad to think that in taking over some part of his duties, I am at least doing a service, however small, not only to an old friend, but to the

great task which he has undertaken

Will you allow me to think that, in electing me to this position, you are recognising a tradition which is, perhaps, particularly British—the tradition that devotion to Hellemsm is not the monopoly either of the library or the spade, that it is at least consistent with the busy life of the outer world? That tradition has always been alive in Great Britain; it reached its highest expression, it is hardly necessary to remind you, in the career of the illustrious George Grote, who was not only philosopher and historian, but the active head for many years of an important London bank. He has set an example which will not, I hope, ever be allowed to die out of remembrance, He proved once and for all that the spirit of Hellenism, far from being killed, might actually be vivified by close contact with the hard realities of modern life; and the significance of Greek, and especially Athenian, democracy was for the first time fully realised by the man who had learnt the spirit of popular government not in the study, but on the hustings and in the House of Commons.

The name and work of George Grote offer a telling defence of Greek studies against the aggressive and able enemies who are attacking them on every side. The future of Greek in England, the future of the Hellenic Society itself, will largely depend on the young men who set themselves to follow Grote's lead, and shew that the Greek spirit can not only be taken into active life, but that it can actually help and vivify that life. It will supply, for those who can feel it, the best of all palliatives against the killing work of drudgery. It can keep alive the imagination, that supreme faculty which is given us to keep ourselves fresh and alert, and therefore all the fitter, when the day of drudgery is over, and the work of responsibility and administration comes, to bring to the task a wide and open mind, which is versed, like Odysseus, in the cities and the ways of men, and has a horizon beyond the routine of the counting-house or the factory.

That such a wide horizon is a valuable possession for a man in business—that the gift of managing and administrating requires something wider and more liberal than the rule of thumb learnt in the office or the workshop—this is a fact which is being steadily, though still slowly, learnt by the leaders of the great commerce of England. Every year the demand is growing for University men who will enter business with the special object of training themselves for the higher posts; in commerce or finance the idea that a University man is a useless product of an effect system is gradually

dving out.

George Grote entered his father's bank at the age of sixteen. That was the old idea—that no one would ever make a man of business unless he started his career as a boy. No one in the City, I fancy, would now think that Grote would have made a less efficient banker if he had gone first to

Oxford or Cambridge; and I am sure that it would have resulted in a large economy of intellectual energy. The young classical student of to-day is more fortunate; let us hope that he will prove himself worthy of his privileges.

If there is any such young student now deciding on a commercial career, I should like to suggest to him that he has an opportunity of an exceptional nature for making a name somewhat like that of Grote, and doing an equally great service to the cause of Hellenic learning. There is still a great gap in our ordered knowledge of Greece, and it is a gap which we, or rather our successors, should soon be able to fill. The materials are not yet complete—perhaps they never will be really complete—but they are accumulating fast, and are already calling for preliminary treatment. As Grote made Greece live by writing for the first time with full comprehension and sympathy a political history of Greece, so some one, in no very long time, will earn equal fame by writing out of the fullness of his knowledge a commercial history of Greece. Till that is done, we shall not understand what ancient Greece really was

To Greece more than to any country of which we know, commerce has always been the foundation of national life, the very heart's blood of existence. Greece cannot live on agriculture, manufacture, or mining. Her economic function has always been from the first the bringing together of markets by her shipping; and her place in the world has been determined by the success with which she has been able to carry out this function. Purely commercial conditions have controlled Greece even more than they have controlled Great Britain.

The historian of Greek commerce will need a large equipment of knowledge. The literary sources will be but a small part of the material on which he has to work. The whole enormous mass of inscriptions, a mass steadily growing, must be worked through with the intention to glean every scrap of information which they can supply. That alone is a gigantic task. The study of coins, their distribution, the comparative importance of the chief mints, and in particular the competition of the various standards, will I am sure still have many a secret to tell us. Archaeology will have much to contribute -- more probably than any of us yet suspect. Let me give you an instance. Mr. E. H. W. Tillyard has recently published a paper in which he estimates the mass of Attic commerce by the remains of Attic vases. Olive oil was the great natural product of Attica, and was exported in Attic vases, and Attic vases can be pretty closely dated. So far as this test can justify deductions as to one important branch of Attic commerce, it has led Mr. Tillyard to the curious conclusion that Attic exports varied not directly. as one would expect with the growth of the sea-power of Attica, but inversely; that vasos of the last three quarters of the fifth century, when Athens was at the height of political power, are carer than those of the

^{*} I have since learnt, with great estimation. Gardner actually has a history of Greek Comthat so eminant an authority as Prof. Percy age on these limes in advanced preparation.

preceding and following periods; that the Athens of Solon and the Athens of Demosthenes were commercially more active than the Athens of Perikles. Whether that conclusion is justified by the evidence or not I do not pretend to say; at first sight it looks doubtful; but at all events it needs further consideration. I quote it only to illustrate the range of knowledge which must be at the command of the historian of commerce in ancient Greece.

There is yet another branch of knowledge which will have to be mastered. It is a young but vigorously growing science, a science which I am sure will do much to clear up much that is at present obscure—the

science of Geography.

By Geography I do not mean, of course, the topographical lists of towns, rivers and mountains which passed by the name in the younger days of my own generation. I am thinking of that real science which has at last obtained recognition in England, the geography which is concerned with causes and effects; and in particular of that highest branch of it which studies the inter-relation of mankind and the surface of the globe on which they live—the branch which is known by the sufficiently expressive, if somewhat cumbrons, name of Anthropogeography. The student who designs to write the Commercial History of Greece will in the first place have to turn to Anthropogeography, and master all that it has to tell him of the laws which govern human intercourse and traffic. The Commercial History of Greece will in effect be an intensive study of several periods of ancient Anthropogeography.

Here again the young student has advantages which were denied to my contemporaries. We have had to pick up our Anthropogeography in middle or late life as best we could; we are at best but amateurs. The modern student has at Oxford and at Cambridge geographical schools which will assist him to an economy of effort denied to us. They are already bearing fruit; Professor Myres has already shown us how anthropology and anthropogeography can illuminate the study of the classics. It is no small work to have founded a school of classical geography; the next generation will resp-

the harvest.

But there is a vast amount of preparatory work to be done before the comprehensive history which I am forecasting can be properly written. I am afraid that I shall never live to see it. In the immediate future our task is to clear the ground for it by special studies; and it is my desire to see the

Hellenic Society take in hand some of the most pressing work.

The subject is of course very much in the air at present; students are turning their attention more and more to the fundamental economic forces which underlie development, intellectual as well as material, in ancient Greece as in modern Europe. To take only one case—you do not need to be reminded of the work of one of our own members, Mr. Zimmern's admirable book on The Greek Commonwealth, Politics and Economics in Fifth Century Athens. Will not Mr. Zimmern or one of our younger members make a similar study of economics at Corinth? That would be the necessary kernel of the Commercial History of Greece. One sees aiready the broad outlines

of such a history. It would begin far back, in the neolithic and chalcolithic ages, in the period when the second city at Hissarlik was flourishing. The extraordinary treasures which Schliemann found there are in themselves proof that active and profitable commercial intercourse then existed, and there are indications enough that traffic extended from Hissarlik and Cyprus in the east to Sicily in the west. Those were conditions under which Corinth was destined to act as emporium; and the American excavations show that

it was in fact a settlement in those early days.

Then came a break-Corinth went down, 'side-tracked' by the growth of Minoan Crete, which carried on its own trade to east and west without needing any emporium on the Greek mainland. Corinth in fact disappeared; and what is very remarkable, it did not reappear through the whole of the Minoan period, not even in its latest Mycenaean stage. The American excavators tell us that they have found pottery of almost every period except the Mycennean. This entirely agrees with the evidence of Homer. Not only is Corinth practically ignored in the Riad and Odyssey, but we can see that it could not have been in existence in Achaian days. For though Homer knows of active intercourse between Greece and the east, as far as Syria and Egypt on the one hand, and the Euxine on the other, yet the west is wholly unknown to him. And without trade connexions on the western side Corinth was useless. The Mycennean ware of Sicily did not pass through Greece at all, I am inclined to guess that it was carried west in Phonician ships, which brought it even as far as Spain. But Corinth had no hand in the trade.

The day of Corinth came again when Greek colonisation set westwards as well as eastwards, and occupied not only Sicily but still further shores. Then arose the Corinth of which we think at one time the greatest city of Greece. We know the orilines of her history-the narrow commercial policy of the Bacchiadae, the aid given to Athens to destroy the power of Aegina, the deadly enmity which followed the discovery that Athens had only become a more powerful rival than Aegina had ever been. And finally we shall be told, I am sure, that Corinth was destroyed not by war, but by economic causes. The defeat of Carthage altered the whole commercial aspect of the Moditerranean. The eastern half was no longer the great area of trade; the western basin up to the Pillars of Hercules came into the arena; the timid coasting navigation of early Greece was displaced by sailors who struck boldly out into the open; the ships of Italy had no fear of Maleia, and made straight for the Enxine without troubling the Corinthian Gulf; Delos, where their path crossed the island route from Greece to Asia Minor, became the emporium; Corinth was side-tracked once more. The real destroyer of Corinth was not Mummius but Cato; delenda est Carthago meant also delenda est Corenthus. Both were wiped out in the same year; Corinth lay waste for a century because there was no longer any need for her.

Let me mention another interesting and important piece of work, which is again, I am glad to think, due to a member of this Society. I refer to Mr. Cornford's brilliant Thumplides Mythistorieus in which he argues with great force that the Peloponnesian war was in its origin an episode in the commercial struggle between Athens and Corinth. The Megarian decrees were, according to Mr. Cornford, the first attempt on the part of the mercantile party in Athens, or rather the Peiraeus, to capture from Corinth the trade of the west as they had already, by the conquest of Aegina, acquired that of the east. Megara was to be starved into submission in order that Athens might annex a harbour on the Corinthian Gulf, and so compete with Corinth for the trade which the difficulties of navigation round Maleia drove to the more sheltered route by the Isthmus. It was the defeat of this attempt, by the union of Sparta and Corinth, which led later on to the overt attack on Syracuse by the Athenians.

Now this all seems to me highly probable. It is no reply to say that, if it was the mercantile party which forced Perikles' hand into the adoption of a policy so contrary to that which he had followed for years, Thucydides. must have known and stated it. Thacydides may as Mr. Cornford thinks, have deliberately or unconsciously ignored it, even if he knew of it, because it did not square with his conception of history. But it is quite likely that he did not know of it. That is the sort of policy which is carried out by underground methods; the ambitious financier takes care to conceal himself. and to influence public opinion by well-known processes, working upon popular passion by plausible but purely fictitious and sentimental appeals, Least of all is it an argument against Mr. Cornford that the mercantile classes at Athens were mere μετοικοι, possessing no vote and therefore unable to influence Perikles at all. We have only to carry our memories. fifteen years back to find an instance of certain perossos in the Transvanl. deprived of votes, as we were not allowed to lorget, who managed to exercise a very considerable influence on public policy in South Africa. But exactly how they did it was a secret which they managed to keep to themselves, in spite of the combined efforts of the Imperial Parliament and an omniscient party press. The merchants of the Peiraeus had probably little difficulty in working in the dark | Thucydides may well have been kept in ignorance of the forces operating underground. At this very moment many people would like to know whether suspicions of powerful financial forces at the back of events in Mexico are justified. Those who can tell for certain are probably very few in number, and I am very sure that the acutest historian of to-day would not get much encouragement if he undeavoured to dividge the facts

The financier certainly held a more important place in Greek politics, at least in local politics, than might appear from the ordinary text-books of history. Let me give three instances, which I have not sought for, but which presented themselves incidentally in a very small area, the north-western corner of Asia Minor.

The ancient Acolic colony of Kyme near Smyrna was the laughingstock of Greece for old-fashioned sleepiness. The historian Ephorus was born there. Patriotism, so the joke went, forced him to mention his birthplace in his History of Greece; but all he could find to say was contained in a single sentence, added to an account of stirring doings elsewhere - at this

time tranquillity reigned in Kyme."

But Kyme was at all events progressive enough first to incur a municipal debt, and then to default in the payment of interest. As security for the debt they had pledged their public portices; and these were occupied by the bankers or financiers who had made the toan. This was a serious matter for people who lived their life out of doors as all the ancient Greeks did. But the bankers were kind-hearted, and when the rain was heavy they used to send the town crier round inviting the people into the portices. So the joke went abroad that the folk of Kyme were too stupid to take shelter when it rained, unless they were bidden. Probably these amiable money-lenders were local men who wanted votes for some ulterior object.

This story, I readily admit, can hardly be taken as serious history; the next, though it has its humorous side, is no doubt authentic. It comes from Lampsakos, only a hundred miles or so away. Eurgon of Lampsakos lent his native town a sum of money, and took as security not the porticos, but the Acropolis Itself. The town defaulted; Eurgon foreclased, and proceeded to realise his debt by an original method of distraint. Being in possession of the citadel, and surrounded no doubt by a force of armed clerks, he established himself as despot of Lampsakos. This, however, was more than the liberty-loving people of Lampsakos could endure; they attacked Eurgon, we are told, but what is more important, they paid him off. He retired, probably, quite content with the success of his process-serving. For Eurgon was not only a capitalist but a philosopher, in fact a pupil of Plato—a very dangerous combination, as Athemens takes care to point out.

My third instance is quite serious, and ends, indeed, not in comedy but in tragedy. Curiously enough it is another instance of the combination in one person of the financier and the student of philosophy. In this case, however, the influence of Plato was modified by that of Aristotle, which perhaps accounts for the difference. As the episode played an important part in the life of Aristotle, it is recorded for us in various sources, and the main outlines may be regarded as fully authenticated.²

The story takes us to the rather important commercial town of Assos, about half-way between Kyme and Lampsakes. Here there lived a banker named Eubalos, who had in Strabo's words, 'set on Assos and Atarness'—the latter a small town about forty-five miles away, just across the Gulf of Adramyttion. It is clear from the context what this

^{*} Strabe viii. 1, 57; Diog. Lacet. v. 3-9; Dialor. zvi. 52; Athen. zv. 696.

[&]quot; He Si Eggiat eineliget, sparelism turbe einerge geedgeent & Affrequese gepodeure und Mainung und Approvident Franchsche 31 rug Seundrys auertypherende, spären einskulenn roll nur Armein und Ander zweiger Freira bestellure

feverar, and pereriphers the te Aparter An and Essecutive and frankling about the to a Aparter and feverage about the control of the the transport of Epocher, but the insertional below is distinct. The name of Eubpies comes from D. Lagre.

means—he had succeeded, no doubt by the power of the purse, overt or concealed, in setting up a despotism, apparently at Assos, certainly at Atarneus, and ran the business of government as a branch of his bank.

He had a confidential slave, a cunuch from Bithynia, named Hermias, whom he probably employed as a private secretary, and of whose ability he formed so high an opinion that he determined to give him, in modern language, a University education; in other words he sent him to Athens to study philosophy under Plato and Aristotle. Hermias attended the lectures of both, and formed an intimate friendship with Aristotle. After completing his course he returned to Assos, where his master took him into partnership, as Strabo tells us, in the despotism business—τῶι δεσπότηι συνετυράννευσε. In the course of time the senior partner Eubulos died, and Hermias succeeded to the business. He invited Aristotle, with Xenokrates, to stay with him; they not only came, but Aristotle married Hermias' miece, or, according to another account, his adopted daughter.

The visit had a tragic end. Hermias grew powerful enough to incur the jealousy of the Persian government. Either the notorious Memnon of Rhodes, or according to Diodoros his brother Mentor—both of them were consistent supporters of Persia against their own countrymen—had been appointed satrap of the district; the high-minded Hermias was fured to a conference by a safe-conduct, and treacherously arrested; his signet was used to obtain the surrender of his strongholds, and he was sent off a prisoner to the Great King, who duly crucified him. The two philosophers had to fly from Asses. So ended a notable career—slave, banker, philosopher, and statesman. One wishes one knew more of

the man

There are, however, two memorials of him to be mentioned. The first is the eulogy to his memory written by Aristotle himself—the only surviving instance of the philosopher's excursions into poetry. I cannot refrain from quoting you a few lines of this remarkable ode. It is addressed to 'Apérn, that untranslatable word which in this case is perhaps best expressed by Greatness of Soul. For thy sake, says Aristotle, 'Herakles child of Zeus and Leda's sons codured to pursue thy majesty with much travail: yearning for thee Achilles and Ainspassed into the grave: and for thy benignant grace the fester-son of Atarnens renonneed the light of day. Therefore shall his deeds be sung and the Muse shall exalt him to immortality, extolling the majesty of the God of Hospitality and the gift of faithful friendship.

The other memorial of him is still more tangible, and is not far from us at this moment. In the British Museum there is an inscription recording an alliance between the town of Erythrai and Hermias—we only learn that Hermias represents Atarneus because it is agreed that he shall set up the treaty in the temple at Atarneus. But Hermias is not alone; the party to the treaty is Epmas kal of éraipor. Who were these éraipor

According to Hicks* they are 'comrades of Hermias who commanded garrisons in towns belonging to his sway.' Let me ask if there is not a more special sense in the words—if the comrades are not in fact his partners in business—if the treaty is not made on behalf of Atarneus by the firm of 'Hermias and Company, Bankers and Despots.'

I hope I am not digressing too far from my subject. I want you to see that the History of Greek Commerce, which I foresee, will not be a more matter of duil economics. It will throw light in many unexpected and very human directions. In particular it confirms, I think, the very suggestive paper of Prof. Percy Ure, in J.H.S. xxvi. 131 ff., on The Origin of the Tyrannis. Prof Ure shows strong ground for thinking that Polykrates of Samos and Peisistrates of Athens both owed their power to their wealth, gained probably in the case of Polykrates from trade, in that of Peisistrates from mines; and he draws the further conclusion that the general spread of the Tyrannis in the seventh and sixth centuries a.c. was a symptom of the rapid commercial growth which marked that period. It is surely a strong confirmation of that view that we should be able to point to two instances at least where, under the full light of history, we can trace the establishment of despotism directly to the command of capital. Tyrannies on a small scale aress in many towns of Asia Minor as Persian power decayed; the conditions of the fourth century may well throw this light on those of the seventh.

Let me, by way of further illustration, pass on to you a question which Sir William Ramsay asked me only the other day. It will serve as an instance, in a small way, of the light which such studies as I have in mind may throw on the most unexpected corners of history. It is a question which I could not answer; perhaps some of you can satisfy Sir William's

most suggestive curiosity.

When St. Paul reached Philippi, on his first landing in Europe, in company with Silas and Timothy, and apparently St. Luke, he went down, as you will remember, to the river side, and spake anto the women which resorted thither. 'And a certain woman mamed Lydia, a seller of purple, of the city of Thyatira, which worshipped God, heard us. . . And when she was baptized, and her household, she besought us, saying, If ye have judged me to be faithful to the Lord, come into my house, and abide there. And she constrained us.'

Now Sir William Ramsay asked me if I could tell him, or say where he could find out, what were the conditions under which a foreign seller of purple in Philippi could have a house so extensive that she could, without notice, give lodging to four men. The fact certainly implies very considerable wealth, and domestic accommodation far beyond that of an ordinary retail shop; the mere fact that the entertainer is a woman means that there must have been plenty of other people in the house—a large 'establishment' in fact.

Now I was unable to answer the question; and the fact that it is asked by Sir William Ramsay is good evidence that it has not been discussed in

[&]quot; Mount of Greek Hist. Inur. 176.

any work dealing with Asia Minor. In fact I doubt if it has occurred to anyone else; yet it seems to me a most suggestive question. I could only tell Sir William that I could make a guess, but without any evidence to support it. What I should think to be highly probable is that the purple manufacturers of Lydia were combined in a guild to preserve the secrets of their craft and to keep up profits by excluding competition. It further seems likely that such a guild would maintain, in a place like Philippi, the chief city of that part of Macedonia, and a colony, a permanent factory, which they could keep supplied with a stock sufficient for ordinary trade, with one of their number, perhaps more than one, in charge of the business. And further, I should suppose it probable that there would at least once a year be at Philippi a large fair or market, which a number of the purple-sellers would wish to attend. If that were the case, is it not likely that they would keep up some sort of a private khan, attached to the shop, in which they could put up for a time, so long as the fair lasted? If that is the case, we can see at once how Lydia would have, at any time but during the fair, means of lodging the four Christian missionaries. This is only a guess, or a series of guesses, which may be wrong at any point. But it is a question which is, I feel sure, capable of investigation; and it mises a point of the highest importance for the historian-the whole question of the status of the middle classes in an important provincial city of the Roman empire. There may be no evidence available on the particular points I have mentioned on the existence of a guild of purple-sellers in Lydia, or of an annual fair at Philippi; but there must be evidence, and abundant evidence, somewhere as to the organisation of trade, the prevalence of guilds the custom of fairs in large centres of population. The evidence may be for or against; but in any case it is worth looking for and placing on record in some accessible form.

Now the task of collecting and arranging the various evidence of which I have spoken is already a large one; and it is not likely to grow less formulable as time goes on. Much of it will doubtless be done by individuals; but there is a great deal which calls for some organised effort—there are departments which are already almost if not quite beyond the power of a single man, if we are to have any useful work completed within a reasonable time. And my special object now is to call your attention to one such piece of work for which I believe that the time is now ripe—and that is an adequate

edition of Strabo's Geography.

Such an edition is indeed a gigantic work, and I doubt if there is any man living who could deal properly with the whole area included in Strabe, from Spain to India. If we are to wait for an edition of the whole, we shall have to wait, I lear too long for many of us. But I cannot help feeling that a beginning will be made, and a definite result achieved in no long time, if we take a single portion of Strabo, and set about it at once. It will be somewhat of an experiment; but it will lead the way and show how

^{*} I have since fournt from Sir W. Hamsey that the existence of such a guild is in fact established by ine riptions of Thyatira.

the problem must be tackled; it will surely be of service if only in helping to a more perfect completion of the rest of the work.

And there is one particular part of Strabo which offers itself for such treatment. I am thinking of the three books, from the twelfth to the

fourteenth inclusive, which deal with Asia Minor.

These three books cover a well-defined area, which is from every point of view of the utmost importance. For the commercial history of Greece it is the most important of all; for it includes the coasts alike of the Aegean, of the Syrian and the Pontic Seas; every trade route from north-east to south-east touches it. It is still comparatively unknown ground in comparison alike with Greece itself and the lands to the west of it. And it is particularly a region where British scholars and travellers have a first claim and special ability in virtue of the work they have already done there. It is work which should be undertaken by Great Britain.

The edition which I have in my mind will of course be in the first instance topographical; but it should give, province by province, a geographical description in the widest sense, discussing the line of roads, the routes of trade—often a very different matter from the roads—the sites of cities and the reasons, whether historical or scontomical of their rise and decline. This will involve also a physiographical description, covering the geology—highly important both for the influence it has had on communications, and for the importance to Asia Minor of its mineral wealth—and including also an account of the animal and vegetable products of the country, with its vast sheep pastures in the central plateau and the almost subtropical wealth of the forest along the shores of the Black Sea.

All this is of course the primary task of any commentary on a geographical work. But I should like to see the Strabo offer more than this.
It might well follow the example of Frazer's Pausanias, and be made a
storehouse of information about all that concerns each district, so far as it
bears in any way upon ancient history. There should be a summary of
epigraphic and numismatological authorities, something about the many
characteristic religions and myths, a short statement of all the chief views
on either side of disputed questions, and in all cases full references to
published works, in the more important cases with an abstract of their
contents. Here would be perhaps the great service which the commentary
could render to the historian. The literature about Asia Minor is already
vast, and is growing rapidly. We have reached a point when it is both
possible and desirable that it should be rendered accessible to the student
who cannot afford to spend years in scarching out from the mass exactly what
would be serviceable to his own purpose.

You will see that, though I have spoken of this work in connexion with economics, and in particular with economic geography, this is only one out of many purposes which such a collection would serve. It would be in fact a thesaurus of information about Asia Minor on a geographical basis, serving the uses of the philologist, the archaeologist, the epigraphist, the numismatist, and the general historian as well as the economist. It will be a work in which cooperation is needed; it will be the work of a band of scholars. And cooperation involves organisation. It is here that there will, I think, be a useful part which our Society can play. Britain fortunately possesses a number of men at the present moment specially qualified for the task which I have suggested—men intimately acquainted with the whole of Asia Minor, and full of information still unpublished. They will have to do the work; but their energies must be economised. They must so far as possible be relieved of the mere mechanical drudgery of organisation, and left free to do the work which they, and they alone, can do. The business of the Hellenie Society is to render aid in a case like this, and I earnestly hope that it will be possible to design some means by which this assistance can be given.

It would be mere impertinence in me to suggest such a scheme if I had not first assured myself of the willing and active aid of the men who are uniquely qualified to deal with the work. Sir William Ramsay is of course the name which comes first to one's mind. Sir William is at the moment in Pisidia; but I am happy to tell you that I speak in his name as well as my own. On him must needs devolve the superintendence of the whole work; a large portion he will have to do himself. Second only to Sir William's name is that of Mr. Hogarth; and Mr. Hogarth has assured me that he too will ghally take his share. Further than this it is needless for me to go at the moment; if the Society will take up the task, the essential foundations are

already laid.

WALTER LEAF

THE IONIAN CONFEDERACY.

The federal union of the Ionian cities established on the coast of Asia Minor and on the adjacent islands has not yet been the subject of any comprehensive study. In the standard books on Greek federations it has received no more than passing mention. Freeman has made some instructive comments on it, but has not followed its fortunes beyond the earlier years of its existence; Swoboda has not found room for a description of it in his recent and up-to-date manual. A discussion of some principal problems concerning the League is offered in the following pages.

1.—Origin of the League.

A precise date for the institution of the League cannot be furnished, but the time of its formation can be defined within certain limits

In the first place, it is clear that the Lesgue had no existence antecedent to the Ionian migration. The alleged derivation of the Ionians from Achaea, which might be used to prove that the Ionian League was an offshoot from a prohistoric union of Ionian cities in Achaea, may be set uside as a fiction of late growth, for the traditions of the several Ionian cities know nothing of an Achaean origin for any of their inhabitants, Indeed it is idle to look for any common home of the Ionian nation. If anything emerges clearly from the foundation stories of the individual Ionian cities, it is the fact that they drew their settlers from many different quarters. The coloniats cannot have brought with them any national consciousness, Ionian or other. But this is

History of Polarai Generalization, 1893), vol. i. pp. 145-9.

In Hermann's Lehrlach der grücklichen Stanfaulterführer (6th ed.), vol. L. Pt. 111.

The belief that the Ionians had their uniqual lame in Achaes to are found in Herodotus (i. 145). In the fourth century n.o. it was shared by the Ionians themselves (Timotham i. 247, Diodoms xv. 49). This tradition does not seem to rest on any other foundation than the similarity of name between Possidon of Balico in Adhaes and the Possidon Heliconius of the Ionians. The real origin of the latter is extrainly to be sought in Mt. Helicon in Bosotia, as one pointed out long ago by Aristanchus (Schof, as Ill xx. 404). The importation of a

Boostian god into lonia can be readily explained by the presence of Bocotian astilers in a good number of the Jonian towns (Wilamowtta-Modlemberff, Stramowter, Berl. Ak. 1908, pp. 63-73;

The importance of the traditions of the individual Ionian cities has been clearly brought out by Wilamowitz Mouliendorff (for. cc.).

It is sometimes argued that the Innianawere a widely diffused people in prehistoric Greece, and that the colonists who migrated to Asis Minor from Attica, Argulia, Cynuria, and Enbora belonged to this nationality. If this were the case, the preponderance of the Ionian element among the ettlers would have been sufficient to justify our speaking of a national

as much as saying that previous to the migration they were bound by no federal tio, for an Ionian League presupposes a feeling of common Ionian nationality.

On similar grounds we may reject the entry in the Marmor Parium which synchronises the establishment of the League with the foundation of Miletus and all the other Ionian cities, and assigns all these events to 1086/5 (or 1076/5) a.c.? This date is by no means a bad guess at the era of Miletus, but in all probability it is no more than a guess, and is not founded on any documentary record such as a list of eponymi. Moreover it is plainly inapplicable to the history of the other cities and of the League, for if the Ionian migration was not the work of a united nation, it stands to reason that the cities of Ionia were not all built in one year, and that the League, being subsequent to the formation of an Ionian nation, was a growth of later time.

On the other hand the existence of the League at least as far back as the beginning of the seventh century B.C. is well attested. In an inscription of 200—190 B.O., 10 containing an arbitral award by the Rhodians in the case of a frontier dispute between Priene and Samos, we read that the territory of Melia, containing the land in dispute, had formerly been adjudicated by the construction of the Hamassage of Vitravius 12 we further read that the 'commune consilium' of the Ionians had previously decreed the destruction of Melia. Now the date of these events can be ascertained by reference to another inscription. 15 the importance of which for

Ionian conscionances smong flient. But except in Attion and the town of Troozen, the personce of an Innic element in the prehiatorie population of the colonising districts is very bully attested. In the rest of Argolie there are no sure traces of a primitive footen population. Merodotus' surmise that the Cymurians had once from formans (viii. 73) is plainly no better then a gross , in his own time the Cymuriana were admitterily indistinguishable from Devians. The instition that Eubon was originally an Ionian bland is of late date and conflicts with earlier and more trustworthy appounts (Busale, constraints (Separatellis, 1.5 pp. 258-5). If proceed too, it is militally that the term "Instan" should from the first have denoted a whilely diffued group of peoples, for genum names of this cort are not likely to be in the among primitive peoples. Historic analogy temis to confirm the conjecture of Wilamowitz-Macillensorff, that the Ioniana, like the Hellenss, were originally a small trute whose name was applied, fault its miner to larger aggregates when the need for collective names came to be felt

 [Nurshania] dylenta, from [RHHH]AIII (or [RHHHA]AIII).

"According as PHHHA III of PHHHA AIII

The excised pattery discovered on the site is of inte Mycensons style (s. Salis, Kees Jakebander, 1910, p. 729).

It probably means 'four generations from the fall of Troy.'—See Jacoby, Harmor Fortum, p. 151.

Hatchriften von Prime, No. 37 (= Collita-Bechtel, Dialektonechriften, No. 3758).

il. 64-69: Kapoor nei Anonifevar, nal des Felarium de vais Mainréplan vai Mangrent invaluais invaluais morane [xapour pléson, blive nal à l'Anord xonc à Medane [seu l'idone normal l'advair débas [niete vâis valuais vais mai maille cai và indem normal de distant au la librar normal de distant normal cai và indem normal de distant normal de d

iv. 1: Melite (i.e. Melia) propter sivium adregantismi ab his civiratibus (i.e. 12 obler Ionian towns) bella indicho communi consilio cat cubinta.

¹⁶ G.L.G. 222-1; Hirks, 152; Michel, 36; Dittenberger, Or. Grace. James. No. 12; Lombriffen v. Prime, No. 500. the present question was first shown by Wilamowitz-Moellendorff in a rescript of king Lysimachus (c. 300 n.c.) to the Samians, in regard to the aforesaid frontier dispute with Priene, it is stated that Lygdamis on his foray into Ionia found the debatable land in the possession of the Samians and the Prienians. The Lygdamis of this inscription can hardly be any other than the notorious leader of the Cimmerians, whose incursion into Ionia befol about 650 g.c. Consequently by this time the partition of the Melian territory, by which it came into the possession of Samos and Priene, had already been affected. But since the partition was the act of the Ionian League; it follows that this body had come into existence before 650 g.c.

This date is confirmed by a passage in Pausanius ⁶ which records the inclusion of Chios in the Ionian League by a king named Hector. We may agree with Wilamowitz-Moellendorff ¹⁸ that the kingship in Chios, as in other Ionian states, can hardly have survived beyond the middle of the seventh century n.c. Hence the League into which Chios was absorbed at that time must have been formed previous to 650 a.c.

Some further light may be thrown on the origin of the League by considering it in relation to the Ionian wavnyopis at Delos. The Delian festival must have been instituted before 600 R.C., for the Hymn to Delian Apollo, which is a work of the seventh or possibly the eighth century fi.c.," makes mention of this gathering.20 and from the general context of the poem we may infer that the fistival already attracted worshippers from all those peoples of the Aegean scaboard to whom the name 'Ionian' was eventually applied." The question now arises whether the Harmina celebrated by the Asiatic cities at Mycale was of earlier or later date than the Havionia of the generality of Ionians at Delos. Herodotus clearly implies that they were of later date, for he represents the league of Asiatic Ionians as a schismatic offshoot from the larger Ionian nation.22 But if this were so, how came the festival at Mycale to be called Hancona? If the more catholic Ionian holiday at Delos had already been instituted at the time when the 'Sonderbund of Asiatic cities was formed, it would have been absurd for these to claim the title of a 'pan-Ionian' assembly.2 On the other hand there would be nothing strange in their proceedings if the name Havious had been

¹¹ Silamonder, Hert. At. 1906, p. 38 app.

¹⁸ Buelt, Grandinde Greetudie, il. v. 442.

W vil. 4. 9-10.

^{*} Op. ail. pp. 52-4

in Christ, Reschools for princhindes Literafur, L* pp. 102-3. Williamowitz Moellendorff (for cit. p. 71) fixes the date of the Hymn at

a period not much later than that of Ried

[□] L. 146: feets on Aksextraves tidaves hypotheria. L. 152: Er Idaves hipolar eler.

I.l. 29-44 of the Hymn recent a sariety of places in the Aggan basis where Apollo was bing. It seems a fair inference that the Dellan succepture was attended by representatives from these districts.

^{= 1. 143}L

[&]quot;Similarly the name Meyday EAAds must have been assumed by the Achteun cities of South Italy before EAAGs had become a gene-to term for Orecco.

applied to the festival at Mycale at a time when the name Ionian' was still confined to the Asiatic cities and had not yet been extended to other parts of the Aegean coast. And we may reasonably assume that the term 'Ionian' was current among the cities of Asia Minor before it spread to all the various peoples who worshipped Apollo at Delos, for a national name of this kind is more likely to be used in the less extensive sense before it acquires its wider meaning. and Herodotus asserts that the Asiatic cities gloried in the name 'Ionian' at a time when others still shunned it. Our conclusion therefore is that the Handma at Mycale and the league which celebrated it were older than the πανηγύρις described by the Homeric Hymn. In other words, the Ionian League was established early in the seventh century, or possibly at a still more remote date.

To sum up; the Ionian League cannot have been instituted until some considerable time after the Ionian migration, but was certainly in existence by 650 n.c. A date between, say, 900 and 700 n.c. is thus indicated for the origin of the League.

II.—Purpose of the League.

According to Wilamowitz-Moellendorff³⁰ the Ionian cities first banded themselves together for the purpose of coercing the town of Melia, and they consolidated their alliance into a federation in order to combat the aggressions of the Lydian kings. Neither of these views seems well established. Although Vitravius represents no less than twelve other Ionian towns as making war upon Melia, it is unlikely that a league of these should have been expressly called into being for so petty an object, such a procedure would be like cracking a nut with a Nasmyth hammer. And as to the Lydians all records of federal action against these are conspicuous by their absence. It is well-known that the Merminad kings were unusually humane conquerors, and they were not averse to making special conventions with individual Ionian towns. Hence it is not a matter for surprise that the Ionians as a nation did not unite effectively against Lydia. Their league, for from gaining strength under stress of the Lydian peril, would seem rather to have been in abeyance in this crisis.

One important point, however, must be freely conceded to Wilamowitz-Moellendorff. The purpose of the League was political, and not sacred, like that of the pan-Ionian synod at Delos. Had the primary object of the League been religious, its meetings would surely have been held in some sanctuary of wide repute, such as the temple of Apollo at Branchidae, or that of Artemis at Ephesus, or at the seat of the oracle at Clarus. But the reverse is the case. The cult of Poseidon at Mycale was of quite subordinate importance and would hardly have been heard of but for its connexion with the League. To all intents and purposes the League created the cult; the cult certainly did not create the League.

[&]quot;Witness "Examps," 'Indi, 'Franks,' = Zot, cir. pp. 46, 78, = iv. 1.

What, then, was the political end which the League was designed to compass? A clue to this problem is furnished by Wilamowitz-Moellendorff, who shows good reason for believing that the territories of several Ionian towns had once belonged to the Acolians,20 and throws out the suggestion that the sense of common nationality was aroused among the Ionian cities by contrast with the neighbouring Acolians." It is but one step further to suppose that the Ionian League was formed for the purpose of maintaining and extending Ionian territory at the expense of the Acolians. These latter had undoubtedly formed a coalition against the Ionians on the occasion of the war for the possession of Smyrna," and if the Ionians defeated this coalition, they too must have been banded together in a league. But since the wars which the Ionians waged against the Acolians were ex hypothesis previous to the foundation of several Ionian towns, they must have occurred at an early date, for the tale of Ionian communities had been completed by 650 B.C. Hence it may be inferred that the rivalry between Ionians and Applians dates as far back as the Ionian League, and that it was the cause of the League.

If any special reason were needed for explaining the continuance of the League, we had better look, not to the Lydians, but to the Cimmerians. Unlike the Lydians, the Cimmerians had no great sympathy with the Greeks and showed no mercy to their antagonists, but destroyed cities 23 and temples 24 alike. The flutter which they and their allies caused among the Iomans is attested by the poems of Archilochus and Callinus, and by the well-known sarcophagi from Clazomenae. The Cimmerian invasion therefore would seem a suitable occasion for the consolidation of the Ionian League.15 But there is no imperative need for supposing that anything more than the hostility of the Acolians was the cause of the League being formed and maintained. Indeed the supineness of the League in the days of the Lydian invasion suggests that it had not been called into activity since the Acolian

WAIS:

HL-Number of Federating Cities.

In Herodotus' days the League counted twelve members, and this number had then become fixed and consecrated. Nevertheless it certainly does not represent the original total of federating cities. On the one hand the early League lost a member by the destruction of Melia, if on the other

³⁹ The conversion of Smyrna from an Acquian into an Ionian town is well attested (Herodorus 1, 150). For the case of Phonesa, Claromornas, Chies and Erythrae, see Sitmenucker Beel, dk. 1906, p. 62,

[&]quot; Similarly the philo-Dorian and anti-Lunian bias of Herodotus seems to have been induced in him by the rivalry between the Dorians of his native city of Hallournassus and the neighboaring Ionians, especially the Milesians.

[#] Herodotus |. 150. H.S.-VOL XXXV.

[&]quot;This follows from the passage of Vitravius and the inscriptions quoted on pp. 2 and 3

Magnesia-on-Macamiter.

[&]quot; The Artemisium at Ephceux

The decompassia for which the Ionian Longon honoured Hector of Chios (Paussuins vil. 4, 10) may have been displayed in the Cimmerian

[#] Herodotus L 145.

[#] Vitravius iv. L.

hand it gained new confederates by the inclusion of Smyran, ** Chios, **
Phocaen, ** and possibly Erythrae and Clazomenae, **
Whether the remaining cities of Miletus, Myus, Priene, Samos, Ephesus, Lebedus, Teos and Colophon all entered the League at its inception cannot be ascertained.

After the second foundation of Smyrna by king Lysimachus (c. 300 n.c.) the League attained its highest total, viz 13 cities. In all probability this number was speedily reduced, but in theory at least the League henceforth was always made up of 13 communities.¹⁵

IV.—Constitution and Powers of the League.

From the evidence discussed above ¹³ it is clear that the League possessed the powers of waging war and of acting as a court of arbitration. The exercise of these powers presupposes some kind of permanent federal council, and we need not doubt that regular sessions of delegates took place at the Pamionia. On the other hand it is uncertain whether the councillors had powers to conclude business or were merely deputed, 'ad referendum.' Still more impossible is it to say on what principle they were elected, and whether a system of proportional representation was in force. No mention is made of a special federal executive, and the inefficiency of the League which we notice in the days of the Lydian and Persian wars strongly suggests that it depended for the carrying out of its decrees on the governments of the federating cities.

The need for a more centralised administration did not escape the notice of the wiser heads among the Ionians, and at the time of the first Persian conquest proposals for reform were duly made. It was suggested by Bias of Priene that the Ionians should save themselves by means of a συναικισμός in the literal sense of the word. However sound this plan may have been from a military point of view, it offered all sorts of sconomic disadvantages, and it was an outrage on the Ionians' sense of attachment to their homes. To make matters worse, Bias proposed that the new Ionian city-state should be founded, not in Ionia, but in far-away Sardinia. No wonder that his scheme was rejected.

A less drastic proposal was put forward at the same time, of which the philosopher Thales was possibly the author.45 According to Hero-

probable in Bias having really put forward the plan. He certainly was a contemporary of Crossin (Herodotus 1, 27), and therefore of Cyrins; and as a critical of Priess, which had countly been emblaced by the Persians (Herodotus 1, 181), he would be particularly likely in propose some desperate measure of self-defence.

si Wilamowitz Moellandorff's (toc. cit.) suspleions about the part here ascribed to Thaleappear well founded. It is doubtful whether Thales was still alive in 545-540 e.c., the time of the events under discussion. He had predicted an oclipse of the ann in 352

[&]quot; Virravius ir. L.

⁻ Pausanias vii. 4. 9.

[&]quot; Pausanin vil. 2. 4 : 3. 10.

⁴ Wilamower-Mo-Hendorff, for car. p. 62.

⁴⁴ See p. 188 below.

Witravine is, 4; C.I.G. 2254; Inchr. v. Prime, No. 37.

^{*} Hierodotus I. 370. Wilmowitz-Modilendorff (oc cit. p. 47) has thrown doubts on the tradition which makes Base the author of the plan in question, because Birs, as one of the Seven Sages, was a convenient pag on which to hang an appodnte. But there is nothing un-

dotus, Thales bade the Ionians en βουλευτήριον εκτήσθαι, το δε είναι εν Τέω, τας δε άλλας πόλιας οίκεομένας μηδέν ήσσον νομίζεσθαι κατάπερ εί δήμοι eler. These words have been variously interpreted. According to Stein, the intention was to set up a 'Bundesstadt' in place of a 'Stadtebund' a which presumably means that all Ionians were to surrender their autonomy in return for the franchise of Teos, as the members of the Chalcidian League in the fourth century gave up their independence in return for the franchise of Olynthus, and as the Italians eventually abandoned their status as 'socii' in order to become Roman citizens. Freeman on the other hand holds that Thales intended each city to rotain its separate being as an independent city, and only wished to form a Federal Council for common consultation and defence against the barbarians. 48 How and Leigh state the case as follows: 'Herodotus seems to think the proposal of Thales was for complete political unification, as he says the cities were to be mere demes: but Thales can only have meant that the Er Bookevripion was to control foreign relations.' M In Grote's opinion the idea was that all the other cities should account themselves more domes of this aggregate commonwealth or Polis. M Blakesley suggests a contamination of μηδέ νομίζεσθαι and ήσσου νομίζεσθαι, i.e. the cities were to forfeit their political existence altogether.

The only point on which the critics are agreed is that only a political and not a residential envoice pic was contemplated; and indeed this much is established clearly by the words elecations between the League and the cities, and as to the political relations between the League and the cities, and as to the actual powers to be invested in the federal authorities. The explanations of Grote and Blakesley need not here be discussed. Grote evades the difficulty, and Blakesley creates more perplexities than be solves. Stem's interpretation is philologically sound, but historically improbable. To ask any Ionian city to merge itself in any other city would have been a bold undertaking; to require its absorption by Teos of all places would have been absurd. Teos had never been a large town, and recently it had lost a number, probably the greater number, of its inhabitants by emigration. In size and importance it was simply not comparable with several of its neighbours, and its central situation did not make its franchise any more desirable. We may therefore reject Stem's

s.u., and the scientific attainments accessary for each a prediction can hardly have been obtained by him in his earliest youth. Hence he must have been born a very long time before \$45-540 m.o. Furthermore, his native city of Miletus kept aloof from the other lonian towns and made separate terms with Cyrus (Herodotus I 169). It is therefore unlikely that any any Milesian took part in the congress in question.

[#] L. 170.

⁶ Note mi for.

^{*} Federal Government, i. p. 147.

[&]quot; Note and loc.

[&]quot; Vol. iii. p. \$2 (1904 elition).

[&]quot; Note ad loc.

Blakesley's works 'into the notion of a sake always entered that of a lf-government in foreign relations as well as in domestic' are daily antime. Greek history has plenty of limitances in which utiles entered leagues and subordinated their foreign policy to a higher authority, yet did not cease to be woken.

[&]quot; Herodotus I. 168.

suggestion that the Ionians were being asked to convert their federation into

a unitary state.

On the other hand Freeman hardly goes far enough in speaking of a council for common consultation and defence. This description could quite well be applied to the Ionian League in its unreformed and ineffective condition; it in no way explains what practical difference the

reformed constitution was intended to produce.

How and Leigh's explanation is an advance upon Freeman's in that it attributes to the reformed League the controlling power in foreign policy. This suggestion brings out the proper force of the comparison between the federating cities and δήμοι. In Greek states a δήμοι commonly had its local self-government and local executive, and its members might or might not possess the franchise of the πόλις to which it was attributed, but in no case could a δήμοι enter into relations with foreign powers. However else the relations of πόλις and δήμοι might vary, the πόλις always exercised exclusive control of foreign policy.

We may, therefore, agree with How and Leigh that the distinctive feature of the reformed League was to be that the cities were to lose all powers of waging wars and making treaties independently, that reference of questions of foreign policy to the League Council was to be

henceforth not permissive but compulsory.

This conclusion raises the question whether the League was to be provided with an executive of its own. To make its control over the foreign and military policy of the cities effective, the League could not properly have dispensed with a separate executive. The analogy of $\pi \delta \lambda x$ and $\delta \eta \mu \sigma x$ also points to the same inference. Though the $\delta \eta \mu \sigma x$ commonly had its own officials, the $\pi \delta \lambda x$ never lacked a separate magistracy and indeed was inconceivable without it. Moreover the executive of the $\pi \delta \lambda x$ would invariably override that of a $\delta \eta \mu \sigma x$ in case of conflict. But the only certain thing is that the League was intended to exercise an effective control over foreign and military policy, the means proposed for making that control effective cannot be determined.

Whatever the precise details of the above scheme may have been there can be no doubt as to its soundness. The lack of a controlling organ which might compel the cities to fall into line at times of common peril was the very cause of the League's comparative ineffectiveness. A further good point in the scheme was that the seat of the federal government was to be transferred from Myeale to Tess. The central situation of Teos made it obviously suitable as meeting place for a parliament, and its small size was a guarantee that it would not gain a controlling influence in the federal Council, as Athens did in the Council of the Delian League. We may share Herodotus' regret that no attempt was made to save Ionia by reconstituting its League on the above lines.

No further condition can be drawn from the use of the word Since in a federal inscription of the 3rd century a.c. (Michel, No. 486, il. 24,

^{42).} Here show simply means the inhabitants of a city.

V.—Decline of the League.

We have already noted that the League contributed little or nothing to the defence of Ionia against the Lydians or Persians. It is not known whether the League was in abeyance under either of these foreign dominations. But, as has been seen, it displayed some activity in the interval between the fall of Lydia and the conquest by Persia and it certainly helped to organise the common defence in the rebellion of 499-493 s.c. On this occasion we find that before the battle of Lade representatives of the cities (\pi\rho\rangle\subset) over at the Panionium to discuss the conduct of the campaign, and that the course appointed admirals to hold the seas round Cyprus. But on the whole, little is heard of federal action in the Ionian revolt. The movement was certainly not begun by any common organisation, but had its origin in the city of Miletus alone, and the campaign of 498 B.C. was apparently directed from Miletus 66s Apart from the admirals sent to Cyprus in 497 E.C., there is no trace of a federal executive, and in the critical campaign of Lade no attempt seems to have been made to place all the contingents under one supreme command. Two cities, Ephesus and Colophon, sent no squadron at all. The fleets of the remaining towns were indeed subordinated for a while to one generalissimo, Dionysius of Phocaca, but this appointment was made in an ayopa or mass meeting of sailors at Lade " not in a session of the xouver; and the appointment was cancelled before the battle had been joined.

The dissolution of the League after the reconquest of Ionia by the Persians is not directly attested, but it stands almost beyond the range of doubt. It was clearly in the interests of Persian policy to suppress a body which might yet be used to unite the Ionians in a more effective rebollion, and the conquerors who burnt down the temple at Branchidae would not have any scruples in doing away with the firstival at Mycale. A proof of the League's suppression may also be found in the fact that the Ionian cities were now compelled to conclude treaties with each other for the settlement of suits between their respective citizens. The regulation of such matters by and fixes between the individual cities suggests that the federal court of arbitration had been closed. If appeals from the decisions of the municipal courts were allowed, we may be sure that these were made to the Persian

governor at Sardis, and not to any korror at Mycale.

The liberation of Ionia after the Great Persian wars does not appear to have led to a reconstitution of the League, and the inclusion of Ionia in the Athenians empire was a fatal obstacle to any such reorganisation. The Athenians, who were well acquainted with the principle of 'divide ut imperes,' so would not have tolerated the growth of a sectional league within

[&]quot; Herodotna vi. 7.

[#] Ibid. v. 109.

^{= 1}hid. v. 98-99;

^{17 7662,} vi. 11-12

¹⁰ Ibid. vi. 42.

^{* [}Xenoplum], Advaius flutersia, ii, 2,

their Delian Confederacy, least of all on the Asiatic continent, where intercourse between city and city could not be cut off by their fleet, and intrigue with Persia was always feasible. Moreover as regenerators of the greater Ionian wavnyous at Deles on they could not look with favour upon a rival Ionian festival at Mycale. On the other hand the Ionians of Asia could not regard the suppression of their xomor as a serious grievance, for they had access to the pan-Ionic festival at Deles, and so long as the parliament of the Delian Confederacy lasted, they, like the other allies of Athens, had their fair share of voting power therein.

VI.—Reconstitution of the League c. 400 B.C.

A revival of the League in the fourth century B.C. is attested by several authorities. The βουλή τῶν Ἰώνων and the Πανιώνων are mentioned in an inscription which is at least as early as the middle of the fourth century and may go back a good deal further in time **

From Diodorus as we receive the following account.—A league of nine Ionian cities had been wont to hold a Harnovow at Mycale. Owing to stress of war it removed its sessions to the neighbourhood of Ephesus, where it proposed to set up an altar in exact imitation of the altar of Poseidon at Helice in Achaea. An embassy was therefore sent to the Achaean League and received the necessary permission to take a model of the altar. Nevertheless the people of Helice did violence to the Ionian envoys and plundered their belongings. Wherefore Poseidon destroyed Helice by earthquake. A terminus post quem for these events is supplied by the mention of the earthquake, which happened in 373 a.c. It does not follow that the embassy of the Ionians to Achaes was sent immediately before 373 R.C., and the mention of wars which drove the League from Mycale to Ephesus suggests a still earlier foundation date. These wars may best be identified with the campaign of 392 s.c., in which the Persian satrap Struthas defeated the Spartan Thibron not far from Prienc at On this showing the League was reconstituted not later than 392 n.c.

A slightly earlier date is suggested by the concluding verses of the recently discovered voxor of Timothens, in which the poet appears to

^{**} Thueydides, III. 104.

Busolt, Geischeiche Stantmittertunge, n.

of Prime (Lenschun, Leipziger Studies zij p. 183). Hence we admind accept the argument of Hiller (Lambriffen v. Prime 139, note of Le.) that the inscription is previous to 335-4 s.c., the year in which Prime adopted the system of dating by creparapoles instead of egerdeen. Nevertheless the norm of the letters proves that the inscription is purvious to 350 s.c.

^{**} BY-049

^{**} Xrauphon, Hallemon, iv. 8, 17-19; Diadorus xiv. 29.

the inference is that the League was revived about 400 n.c. Its restoration may have been due to Agesilans, whose policy was to consiliate the Asiatic Grooks and to foster Hellemic solidarity among them. But it may equally well have been the result of independent action by the Ionian cities, who had recovered their freedom in 401 n.c. at the hands of Cyrus, only to be threatened with fresh subjection to Persia after Cyrus death, or and received no effective support from Sparta till the arrival of Dercyllidas in 399 n.c. It is not impossible that the appeal addressed to Sparta for help against Persia, was made by the League on behalf of the threatened cities.

The number of cities participating in the revived League was only nine. The three outstanding cities cannot be determined with certainty; but it may be conjectured that they were Miletus, which had never escaped Persian domination since 404 a.c., 10 and the island states of Samos

and Chies, which were not directly threatened by Persia.

The duration of the League of nine cities cannot have been long. The surrender of the mainland towns to Persia by the King's peace of 386 ac must have involved its disruption for these towns were now kept in strict subjection. If the Persians went so far as to maintain garrisons in the Ionian cities, they would hardly be likely to tolerate a political league among them. Another proof of the League's speedy dissolution is to be found in an inscription trecording the decision of a dispute between Prieno and Myns by a court formed under the presidency of Struthas, the Persian satrap whose campaign in 392 a.c. has been noticed above. The reference of this case to a Persian governor shows that the League no longer was in existence, else a suit of this kind would almost certainly have been submitted to its judgement.

VII.—The League under Alexander's Successors

Repeated mention is made of the League in the post-Alexandrine age. It is first alluded to in a rescript of king Antigonus to the city of Teos, dated 306-2 a.c. Records of its action are also preserved in inscriptions

The poem was being quoted among the Asiatic Greeks on the commion of Agestlams campaigns in 206-5 n.c. (Pintarch, Agestlams,

141

M Xenophon, loc. cit.

W Xenophon, Angones 1 5.

tration, No. LXX.; Raeder, L'arbitrage,

No XVIL

^{## 11 249-258} EAA tearabone Hibl. hyving factors rained without the state of the s

[&]quot;Xenophon, Hellenco in 1: 3; Diodorns aiv. 35. Compare the alliance formed after the battle of Cuidos by Rhodes, Iasua, Samos,

Ephoem, and Byzantium.-Hill, Historical Greek Coins, pp. 66-62.

Diodorns xv. 49. Timothens (l. 247) speaks of a fractionately state. But this proves nothing, as his expression was conventional.

¹¹ Inscrates, Panegyricus S 123, 187, 190.
²² Inschriften v. Priene, No. 458; Collita-Bechtel, No. 5,493; Tod., International Articles.

^{**} Hicks, 149 (= Ditrenberger, Spiloge*, No. 177: Lebas-Waddington, 86), Il. 1-3: δστικ Ε΄ δε λεί τὸ Πανιώνιον ἀναστήλλητας, αίθμεθα δείν [πράξαι τὰ κομιώ τὸν ίσω χράνον.

belonging respectively to the reigns of Lysimachus (287-1 a.c.), Antiochus Soter (275-265 a.c.), and Eumenes II. (c. 113 a.c.), and

The reconstitution of the League has been ascribed by Lenschau, Wilamowitz-Moellenderf, and Hiller v. Gartringen to Alexander himself. This attribution however does not rest on the evidence of any ancient author, and it is not very probable in itself, for Alexander's policy was rather to extend the Pan-Hellenic federation founded by his father than to revive the sectional groupings of the Greek people. Hence he incorporated Asiatic cities in the general Greek League, but probably did not concern himself with the κουνὸν τῶν Ἰωνων.

An argument in favour of the League having been revived in Alexander's time might be based on the existence of a festival called the 'Aλεξάνδρεια, which the Ionians celebrated in common from at least as early a date as 265 B.c.³¹ It is not altogether impossible that the 'Aλεξάνδρεια were instituted in answer to Alexander's request for deification in 324 B.c. But it is at least as likely that they were founded in memory of him at some time after his death.

On the whole, then, it seems more likely that the League was not called into being again until the time of the Diadochi. Whether its revival was due to the spontaneous action of the Lonians or was the work of one of the Successors cannot be ascertained. In favour of the former view it might be said that the Ionians after Alexander's death had good reasons to federate, for in that stormy period their cities might easily become a prey to the contending marshals of Alexander or, worse still, to some petty local condottiers. It is not without significance that in one of the inscriptions above mentioned ** the League is represented as taking steps to maintain 'freedom and democracy' in its cities. The alternative to 'freedom and democracy' which they were seeking to prevent was no doubt the rule of some tyrant of the military upstart type. Viewed in this light the action of the Ionians in reviving their confederacy would be quite on a par with the policy of the Actolians and Achaeans, who renewed and consolidated their leagues about the same time.

On the other hand it is equally possible that the Ionian League owed its renewal to one of the Diadochi. It is particularly tempting to attribute it to Antigonus Monophthaimus. This monarch was in all probability the founder of the neighbouring Cycladic League, which gave him a quasi-legal hold on those islands. For similar reasons he

Michal, 285 (= Dittemberger, Sylloge?, No. 189); on the date, we Fredrich in Arkenimke Mittedungen, 1990, p. 103.

Michael, No. 486. The date has been fixed by Lemchan, Learning Modes, vii. p. 195.

Dittenberger, Or. Grace, Juse. No. 743

Leipziger Madien, xii. p. 182
 Egillar von Egidanen, p. 31.

[&]quot; Insthriften von Praint, p. xIII.

[&]quot; Willielm, Attische Urbunden, 1 p. 19.

[&]quot; Michal, No. 488, L 24,

^{**} Michel, No. 46th II. 14-17: [Euponobeira]

222 de al markers cha Banghéa Arriogne entre

érasificem monistas cân modelas cas labor

france de re hembje farabapai obser nai

franceparachera. Belding the manifestament

ente rois naraficus sépans.

[&]quot; Tarm, Anligum Conning, pp. 432-6.

may have decided to reconstitute the League of the Ionian cities, so that his patronage of the League might give him a better legal standing as overload of its territory.

But whether or not the League started as an independent formation, the Diadochi certainly lost no time in bringing it under their control. Experience had shown in the case of the Lamian League, and was still to show in the case of the Actolian and Achaean Leagues, that independent bodies of this kind could be very troublesome even to a great territorial sovereign. King Antigonas did not scraple to interfere with a high hand in the affairs of individual Ionian cities, as is proved by the compulsory συνοικισμός of Lebedus and Teos. Lysimachus, besides foreibly transplanting the people of Ephesus. placed garrisons in the cities. and the Pergamene kings imposed taxation. It is hardly likely, therefore, that these rulers left the League entirely to its own devices. King Eumenes put it under monetary obligations to himself, and Antiochus II even gave it a new constitution.

A clear proof of the dependence of the League on the great territorial kings is afforded by the kind of business which it transacted. Its functious have now become purely sacral and formal. So far as we know, they do not extend beyond the passing of votes of thanks, the erection of complimentary statues, and the celebration of anniversary games in honour of living or dead monarchs. The hearing of arbitral suits on behalf of the constituent cities, which probably had been its most useful employment in earlier days, seems to have been discontinued altogether, for cases outstanding between the Ionian cities are now commonly referred to some extraneous power such as king Lysimachus. The republic of Rhodes the Roman Senate, or a Roman magistrate.

Owing to the rapid changes in the distribution of power among Alexander's successors, the cities of the League were not always united under one suzerain. The whole of Ionia appears to have fallen into the hands of Antigonus Monophthalmus, and to have passed subsequently into the dominion of Lysunachus. The greater part of the mainland cities next was

^{*} Hicks, 140.

^{*} Strabo siv. J. 21.

^{**} Michel, 485, IL 2-1: immarpares 'imm-Shane Madgiot, pilos de can ducadas ancepages cal espaciayle ful the cale (me) the 'ikbar paragrafica.

W Cardinali, Repue di Perpusso, pp. 88-95.

^{*} Dittenbergur, Or Grace, Jeser 781, II. DI-D: Seur Be and six ed double de est many paper eds Harmonies hadour évalence dyseres hair frapassordous ets Blanc dopris curredire, apochhous hair ent (sanda ara[videns]

[&]quot; Jasephus, Ant. Jird. 12 § 125 (cd. Naber)

120 'Lives similarus de' abrobs (robe 'localeus),

201 Seopleur rob 'Appleus Ira vita velevitat

hy advois Iduate 'Arriages à Inceluse

oluvõe, di sand võis "Enxiger teeks Reyduseus, uden usverguseus.

[&]quot; Michel, 485 and 486.

[&]quot;Michel, 485, Il 18-14; sectoral de adfrese and electes yanethe eq. ferron de financient. Dittento (re. Green, fauer. 763, 1. 26 sectoral electes yourse de de la Bookman ring elle lineses.

^{*} Alefaropeur: Strain arr. I. 21 and Michel 180, IL 24-5: The willie for hi to ourselfowers the defetar rais "Alefaropelus. Almivernary of Kummus: 200 n. 88.

[&]quot; Tod. International Arbitration No. LXL

[&]quot; This No LXII

[&]quot; Phint Non LXIII.-LXIV.

[&]quot; Ibut No LXXIII

transferred to the Selencids, and finally was made over to the kings of Pergamum. But the islands and some portions of the mainland after a brief occupation by Demetrius Poliorectes, eventually fell into the hands of the Ptolemies. It is very doubtful whether under these circumstances the Ionian League maintained its integrity for long: probably the number of its constituent cities fluctuated considerably. The number of federating towns was also affected by such events as the συνοικισμός of Lebedus and Teos in 306—2 n.c., and the destruction of Colophon and Lebedus in 287 n.c. Nevertheless the total of thirteen cities, which had been attained under king Lysimachus by the addition of New Smyrna to the twelve members of the sixth and fifth centuries, survived all the viciositudes of the League and remained a consecrated number down to the latest period of its existence.

Concerning the constitution of the League in the third and second centuries a.c. we are comparatively well informed. The federal business was transacted by a Smolij of delegates appointed, we know not on what system, by the constituent cities. There is no trace of a federal exchagia, and in view of the formal character of the League it is unlikely that such a body existed. The most important function of the Baukin commisted in its communications with the monarchs who acted as protectors of the League, 100 and with the monarchs' residents in the various cities.100 In addition, it administered the federal festival at Mycale. WT Pursuant to this business, it had powers to receive and send envoys, un to strike coins, in and to impose certain tasks on the constituent cities, such as the publication of federal decrees,100 the execution of buildings and statues, tot and the bestown of immunities upon friends of the League 107. The most remarkable of these prerogatives are the last three, which imply a considerable power of interference in the finances of the federating cities. Nevertheless the part played by the federal βουλή was not by any means overbearing. We have already seen that it lacked military and judicial powers.100 Its financial position likewise was not enviable. The profits derived from its mints and from talls which

See Beloch, Oricchineke Genekichte, iii. Pt. 2. pp. 271-9, and the maps of the end of the volume.

^{**} Hoad, Historia Numerum*, p. 560. Minhal, 685, l. I : States Three van norms the *perional fees which was

Minhal, 480, L. 8: (δλέσθαι μέν δεν πέν συνέδη) αν δύο και δεάστης αδλέξως αρίο. Βαρί.

Michel, 486 (in honour of Antiodone

im Michel, 485 (in binous of an officer of king Lymmachus).

This may be inferred from the words of Dittenh. Or. Over Isser 763, quoted in n. 86 of king Enmouse offered to the League to pay part of the expenses of the festival, it follows that the League had charge of the festival.

^{**} Michel, 486, 1. B (see n. 50); Dittenti

Or, Steam, Ass., 763, 1 81.

¹⁶¹ Catalogue of Greek Criss in British Huseum : Ionis, p. 18. Hund, Historia Numerum ; p. 566.

¹⁰⁰ Michael. 485, 11. 21-5. descriptor de écuarous rule flochestus et églemmusles Taisa els rule faites mateix, deux émalgons de l'orde en fait de l'orde et de l'orde de floches de l'orde de l'ord

^{**} Michel, 485, II. (2)-25: \$A. festa: \$6 ed.
Ana 860 850, afferes d[e.paxit]oueras 55 ac.
år i rikde å Innoreparo[i ora]#6: acri
rikde.

in Michel, 485, II. 11-12 elem moras arma sures arma sures de rais subbanc rais rais "háres. Insure la Bril. Mas. 426, L. 8: arma si farma elemente, administrativo de la farma elemente, administrativo de la farma elemente. Idel. No. 427, L. 3.

HE See about, p. 185.

may have been levied at the Panionium would perhaps suffice to defray the outlay upon that festival and the official inscriptions set up on its site. Extraordinary expenditure, e.g., for the making of statues, had to be passed on to one or other of the constituent cities, and the burden of publicly entertaining distinguished guests appears to have devolved permanently upon Priene, in whose territory the Panionium was situated and the \$\mathcal{Gov}\lambda_j\$ held its sessions in return, Priene had the right of appointing the priest who officiated at the federal festival.

The Books's powers were also rendered nugatory in a large degree by the wide discretion which the federating cities kept in their own hands. Not only did they undertake in turn such formal duties as the celebration of the 'Ahegarôpeia,'' but they frequently kept up independent communication with foreign powers and referred their disputes for arbitration to any one but their Federal Council.'

Of the constitution granted to the League by Antiochus II nothing is known.

VIII.—The League under Roman Dominion.

In view of the fact that the Romans usually suppressed all associations of cities in newly conquered countries, one might have expected the Ionian League to disappear in 129 n.c., when the west of Asia Minor was finally annexed by Rome. As a matter of fact the Haveana are proved by inscriptions 112 to have survived into the 1st century n.c. But it would be surprising if the League had outlasted the stormy period of the First Mithridatic War and the positive settlement imposed by Sulla in 85/4 n.c. Accordingly at this date the record of the League's activity comes to a stop. 114

But the period of suspended unimation did not last long, for in the days of the Emperor Augustus the League was once more revived, in common with all such associations. Its further existence is attested in the age of Domitian. Description of Antoninus Plus III and of Septimus Severus. We may therefore conclude that it survived until the general collapse of public institutions under the stress of the Oothic invasions of 250—260 A.D.

The number of cities now included in the League is uncertain, though the theoretical total once again was fixed at 13.119 Membership of the

^{**} Inachriften von Priese, Nos. 6, 11, 25, 6; 8, 1, 39; 18, 1, 5; 24, L. 4; 123, 1, 11; 198, 11. 4, 222; 109, H. 8, 9; 119, H. 8, 4; 113, H. 6, 7, 100; 174, H. 7, 8.

III Strabu riv. L. 20.

III Michel, 486, IL 24-6: The wider (40 fi he suprediscount the Sulpino the Adefor-Speine [targuation mirror took Sign] et.

iii See the cases quoted in un. 93-96.

¹⁰⁸ Inschr. v. Priens, Non. 108-110, which belong to the period 129-88 s.c.

are Inschr. a. Prime, No. 118, is dated by

Hiller as subsequent to \$4 a.c. Hat the chronological indications in the inscription are barily sufficient to establish this point.

¹⁰⁵ Josephus, Ast. Jun. 12, 8 125 (referring to Agrippa's sejourn in Asia Minor 28-21 and 17-13 a.c.); Strabe vill. 1, 2; xiv. 1, 31.

¹⁰⁰ Life of Apollonium of Tymon, iv. 5.
107 Bystish Measure Cutalogue of Colony London, 18.

He Philostratus, Fibes Separatorium, il. 25.

¹¹⁸ Hand, FP. 556, 571.

League was still considered a privilege, from which the Ionians sought to exclude aliens. But the practical importance of the League was now less than ever. The last remnants of its political functions passed over to the larger κοινὸν τῆς 'Ασίας founded by Augustus, and its character became entirely sacral, as is shown by the prominence which accrued to an official known as the 'Ασιαρχὸς καὶ 'Αρχιερεὺς τῶν ν'ς πόλεων. In its religious functions moreover it was overshadowed by the more splendid ceremonies of the κοινὸν τῆς Ασίας, whose chief official, as we have seen, the Ionian League imitated in its 'Ασιαρχὸς καὶ 'Αρχιερεύς. Furthermore the foderal festival was much exposed to the competition of municipal deities and ceremonies which freely usurped the name Πανιώνια. In fact, it is tolerably clear that in its later days the Ionian League was devoid of any meaning, and that its festivals subserved the purpose of mere amusement untinged by pan-Ionian patriotism.

M. O. B. CASPARL

p 577; do. on coins of Ephcans: Head, p. 594; 'Havasem Résu' on coins of Miletus: Head,

p. 586. A still more impudent claim was made by the city of Coloplem, which not only dubbed the Charian Apollo Harrieres Hôbus (1.0. iii. 175), but issued coins with figures of the thirteen federating cities engaged in sacrificabefore the fourple of Apollo Charius and the legend TO KOINON TON IONDN (B. M. (Valulague, Pl. VIII. 16).

IF Josephus, Auf. Jad. 12. § 125 (see a. 89 above). When the lonians petitioned Agripps to "exclude the Jews from the constitution" they were no doubt thinking of various insumpties enjoyed by the members of the League.

THE BAZZICHELLI PSYKTER OF EUTHYMIDES.

[PLATES V., VL]

The number of vases which have disappeared in the last twenty years since they first were published is all too large, as a cursory glimpse of the pages of Klein's Meistersugacturen will show. Consequently it is a cause for gratification when from time to time one of their number is rediscovered and finds shelter within the confines of a good museum, its wanderings over. To this list we may add the psykter signed by Euthymides formerly in the collection of Signor Bazzichelli at Viterbo, which after being lost for several

years is now in the Archaeological Museum in Turin (Fig. 1)2

The credit for its discovery belongs to Professor G. E. Rizzo of the University of Turin, who has with extreme generosity resigned his claims to publication in my favour, and to whom I am greatly indebted for the facts connected with its discovery as well as numerous technical details, a personal examination by me having proved impossible. The excellent drawings by Sig Baglione (Plates V., VI.) are, so Professor Rizzo informs me after a most careful comparison with the original, exact and accurate in every detail. In 1907 he, while sorting a number of fragments put away in a store-room of the Museum, came across some belonging to a large vessel which after being put together proved to be the long-lost psykter. A comparison of the plate in the Annali shows that none of the fragments are missing since the vase was first published. No documentary evidence is to hand as to its provenance or the date of its transfer to the Museum. The most

satisfactory idea of sither the figures or style. Since then quoted by Klein. Die Griechische Fasen will Meisterrigunteren, p. 196, No. 7; Happin, Kuthirasider, p. 2, B. It seems probable that Klein's statement (i.e. p. 223), von sinem Gafasse doses Meisters (Enthymides) im Museum en Turin erbeite ich von J. E. Harrison Mitheliung doch ohne nähere Angabe des Gegenstandes infers to the psykter, as there is no other vase by Kuthymides, or on far as I know) in his style, in the Turin collection.

The following article is taken for the most part from the sew edition of Enthymides I have in preparation, the earlier one published in 1800 being now thoroughly out of date. As the ware is an important one, it descrees the honour of a separate publication, especially as it is possible to present for the first time on accurate drawing of it to seplace the very inaccurate one formerly published in the Associated Fastings for 1870.

Originally published by Kingmann, does d. fast. 1870, pp. 267-271, Pis. O. P. The drawings are execusible, and give a very in-

probable explanation is that it was purchased from the Bozzichelli collection (which, as far as we can discover, was disposed of in the early eighties) by Professor A. Fabretti, a former Director of the Museum and an enthusiastic collector who had bought many objects in the vicinity of Rome.

The form of the vase save for the addition of the two hundles, is practically the same as the Hetaerac Psykter by Euphronics in Petrograd (Furt-Reich: ii. Pl. 63). Its height is m. 0.343; greatest diameter

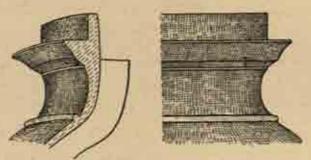


Fig. L.—Paveres av Tuurs,

m. 0°272. The base is separated from the pedestal by a single moulding, and there is a slight moulding at the junction of the shoulder and neck, which is provided with a flange doubtless to hold a cover now missing (Fig. 2). At the top of the shoulder is a tengue pattern encircling the entire vase, and below and at the sides of each of the two handles five palmettes combined which form the division between the two sides separating them into two groups of two figures each. A single stripe of purple paint

forms the lower border, but rather carelessly executed, since it actually passes through the feet of the figures of the obverse.

On the obverse (A) two nude youths wrestling; the one on the left has a strangle hold with his L around the neck and r, shoulder of his opponent, who totters forward, both his hands elenched together like



FIR. 2. - MOULDING OF NACE.

Thesens on the Munich amphora 410. To the r. of the head of the l. h. figure OESEVS, between his legs EVAE NAIXI (retrograde; the last two letters run into and under the stripe of the border). Between the two wrestlers KLI... JON (retrograde). To the r. of the r. h. figure



FIRE 3 - DETAIL OF A.

EVOVMIΔES EAPAQSEN in two lines and between his legs HO ΓΟΥΙΟ (Fig. 3).

On the reverse (B) two mide youths to left (each with a flower wreath in his hair) engaged in scraping themselves with strigils.

Though the r. forearm of the l.h. youth is missing, them can be little doubt as to the action.

Between them a pickaxe (dikella) and at the left of the group a mattock (skapane), both favourite tools with athletes for preparing the soil for jumping. Between the two figures OAVLOS (retrograde); below in three lines EVOVMIDE[5] HOPPLIO (sic.). To the L of the L h. youth

(also retrograde) O[....]OPA.

Faint lines are used for the anatomical details of all the figures and purple paint for the inscriptions lower border stripe, shoulder moulding and two more stripes, one half way up the neck and the other just below the flange of the rim. The handles are in the natural red of the clay. Part of the l. h. figure and most of the palmettes on n and n few unimportant spots on a have been restored, but the vase is, on the whole, in fairly good condition.

Of the four figures two can be identified with perfect certainty. One is Thesens and evidently some exploit is represented; on the reverse is an athlete. Phayllos, so that we most probably have a mere athletic scene with no mythological significance. Unfortunately both the other figures have lost the important parts of their inscriptions and can only

be identified by conjecture.

Since we have Thesens on the obverse wrestling with an opponent it has assumed that his adversary is Kerkyon. But by no possibility can we read the fragmentary inscription kt[...]ON as Kerkyon. Not only is it doubtful whether the last letter is to be read as a N or a 5 (the former seems more probable since the inscription is retrograde) but the second letter is most certainly not [...] It may be 1 or V. It cannot be an A and as the space requires three letters &alós is ruled out. The only plausible combinations are, as Klügmann has suggested, Kleitos or Kléttos, but neither of these names, though not unknown to Greek mythology, has any connection whatseever, as far as we know, with the Thesens legend. Kerkyon is the only adversary who would be suitable in a wrestling bout, since all the other adversaries of Theseus-Prokrustes, Sinis, Skiron and the Minotaur—have some definite attribute to distinguish them.

Pottier* has suggested that the inscriptions may have been added by workmen or apprentices and not by the artists themselves. Considering that on this vase we have a mistake in the signature and another on the Munich amphora 374 (Furt-Reich, ii, Pl. 81, pp. 108—111), as well as some senseless inscriptions, and that repeated mistakes occur in the signatures of both Pamphaios and Phintias, this suggestion is certainly plausible. I am inclined to think, as the only reasonable explanation, that Kerkyon was meant after all and that whoever painted the inscription did it carelessly and wrote kypkyon instead of kepkyon.

So with the figures on the reverse. Phayllos, of course, offers no difficulty, since he occurs on the Munich amphora 374 as well as on the

^{*} Cat. des Vases du Louers, iii. p. 888.

British Museum amphora which I have assigned to Enthymides in my essay (p. 22, v. Pl. VII.). Hauser's identification of this name as that of the celebrated athlete of Croton (Jahrb. des Inst. 1895, p. 110; Furtwängler supports this view in Furt-Reich, ii. p. 111, note 2) seems to me entirely justified. But the name of the second figure is distinctly puzzling. The first letter is certainly O and the last three letters ORA which will not do for a masculine name. On this account Klügmann wished to read a sentence

ending with 5pa ('see').

Now assuming, as is most probable, that the same spacing existed in the break which is employed in the other inscriptions, we have room for just seven letters, and since further three of the four figures are certainly identified by names the probabilities are that this inscription represented a name as well. I can find but one combination to fit and that is O[LVMΓΙΟΔ]OPOS." That is to say the painter of the inscriptions wrote Olympiodom by mistake for the masculine form. This name occurs 1 on a b.f. hydria in the Museo Gregoriano (ii. 14. 2h. Klein, Meistersig. p. 130. No. 1) where it is written 'Oλυπιώδορος together with the name of Leagros: 2, on a r.f. kylix in the Cabinet des Médailles in Paris (Klein, Lieblingsinschr. p. 70. L.; Hartwig, Meisterschalen, p. 132) from which owing to restoration the names have almost entirely disappeared, together with the name of Autias. This last again with Leagros is found on the fragmentary hydria in Dresden (Hermann, Arch Auz 1892, p. 165) commonly assigned to Enthymides. identification is, of course, purely conjectural and I could wish it were more satisfactory, since it involves the assumption that here too did the painter or apprentice make a mistake and write the feminine form. However the triple combination on vases of this period of Olympiodoros-Leagres, Antias-Olympiodoros and Antias-Leagres is quite Euthymidean and perfectly suitable. I offer it however, with some diffidence in default of a better suggestion.

As to the aigmatures little need be said, since the mistakes have already been commented on. The addition of copy raixs is very characteristic of Euthymides, who seems to have taken a peculiar satisfaction in his work and

* L.c. p. 269. Furtwangler's suggestion for the seconders formula sider-Squee on Munich 410 I's loss : Stewar I might be considered in line with thin. v. F.E. i, p. 170. friand of Perikler. This Olympiotoros, as Herodotos talls us (iz. 21), with three hundred Athenian troops defended a dangerous corner at the outpost of Erythras just before the battle of Plataes, in the course of which skirmish Mesistics was alain (cf. Busolt, Gricol-Ges II, p. 727). The date of our two certainly coincides with the youth of Olympiodoros If he was a general at Plataes.

"Can it be possible that the proprietor of the steller was Hauser's "Fran Meisterin" and Enthymidis, her workman and swain, wrote the name of his lady-boxs by mistaks "

While I do not wish to discuss here the question of exact mines, it is certainly striking that so many of them—Megaliles, Hipparchos, Laugues, and Playlike—to mention only a few, should coincide so party with prominent figures of Athena and at this time "man about town".

I am no reason why we should not recognishers a reference to Olympiodoros, son of Lampon and probably father of Lampon, or founder of Thurit (Thus. v. 19, 24), seatheaver and

advertised its quality—as shown by the celebrated inscription ως οὐδέποτε Εὐφρόντος on his amphora in Munich 378.

I do not propose to discuss his style except to add a few details which were emitted in my earlier essay. A careful measurement of all the figures on the existing signed vases (as well as the Munich amphora 410 which though unsigned is universally admitted to be by his hand) shows that he never varies from the proportion of having the heads of his figures one seventh, or a trifle less, of the height. As this proportion is always preserved it is safe to conclude that it does not vary in his unsigned work and permits us to reject any vase showing a different scale. Further in every unsigned vase which can reasonably be attributed to his hand I have found to change. Characteristic is the entire absence of both finger and toe-mails, which do not exist in any signed vase. A particularly Enthymidean feature is the triple division of the scrotum (cf. Munich 378 and 410) which I have never seen in the work of any other master.

If the drawing of the obverse be examined carefully it will be seen that the line of the body and I leg of Kerkyon from armpit to beel is very broken and irregular. This is so strange and so contrary to the technique of the period that one might almost assume it is due to careless copying by the maker of the drawing. Professor Rizzo, in reply to a question on this point, has kindly sent me a photograph of this detail (Fig. 3) and writes me as follows:

'Ho esaminate il vaso e se Lei osserva bene la fotografia che Le mando, la irregolarità nel polpaccio della gamba sinistra di Kerkyon esiste; anzi nel vaso originale si vede di più per il contrasto del nero sul rosso del fondo.' We must therefore regard this as a fact, though it is certainly unusual; I cannot recall a similar instance on any signed vase, and the only suggestion I can offer is that even though a master signed a vase, certain details such as filling in the background, etc., may have been left to the apprentice. In fact, this feature, together with the careless drawing of the border stripe through the feet and the inaccurate inscriptions, would seem to corroborate the suggestion of Pottier's mentioned above.

I had hoped to be able to be present a sketch of the 'preliminary drawing' of the vase, but Professor Rizzo has informed me that this sketch which was done for him some years ago cannot be found, though he still has hopes that it may reappear.

Save in a few details the palmettes are similar to those on the upper border of the obverse of Munich 378, and have nothing to distinguish them

from those used by all the artists at this time.

As for the date of the case, I should be inclined to consider it as contemporaneous with the three Munich amphorae, 374, 378 and 410. The Boschi plate and the Bonn hydria are certainly the two earliest examples of Euthymides' work, for, apart from the style, the use of the imperfect expade in the signature shows that Euthymides is still working in the Epiktetan cycle. Stylistically there is nothing to distinguish the psykter from the amphorae, and it is difficult to decide which is the earliest of the four. We shall probably not be very far wrong if we assign all of them to the first decade of the fifth century.*

J. C. HOPPIN.

that if will not do to separate the activity of Enthymides too far from the year of that event. On the other hand it is mosale to place him too far away from the Epiktetan cycle in which he certainly worked.

^{*} Since Enthymides uses the colds name of Phayllos and it is generally agreed that this refers to the relabrated athlete of Croton who commanded a ship at Salamia, it is obvious, as Furtweingler has pointed out (F.R. ii. p. 111).

ON THE DATE AND ORIGIN OF MINYAN WARE.

Mr. Forsityke in his brilliant article on this subject was unfortunately unable to make use of the important results of Dr. Soteriadhis' recent excavations in Phocis. The site explored near Dhrakmani on the estates of Messrs. Piperis and Ghiannakopoulos has greatly increased our knowledge of the forms of this pottery, supplying just the evidence Mr. Forsdyke requires as a test of his theory. The exploration of the mound near Hagia Marina in the same district serves to supplement the unpublished results from Orchomenes in Bocotia. Now, however, by the kindness of Dr. Soteriadhis I have been able to see the material in the Chaeronea Museum. It will accordingly be interesting to review Mr. Forsdyke's theory in the light of these new finds.

In the large mound of Hagia Marina the excavator has been able to distinguish three main strata. Below the disturbed layers containing modern sherds, came a stratum one metre thick, containing Mycenean (L. M. III.) sherds mixed with Minyan ware. Immediately below this, the pottery called by Furtwängler at Orchomenos Kamares began to appear. At first apparently Minyan and 'Early Mycenean'—by this I suppose is meant the northern variety of Mattmalersi—occur with it plentifully, but towards the bottom of the layer these disappear. This stratum was 3½ m. thick. Finally there was found a 'molithic' deposit varying in thickness from 3½ to 5 ms. In the upper layers of this, a ware with matt paint which is mingled with a few stray Urfirnis sherds, is the typical ware, but at the bottom a little red-on-white 'Thessalian ware' (A 3\$) appears.

It seems in the first place as if the neolithic settlement here began late, as this A ware is so scarce. On the other hand the wares with matt paint on a light ground are exceptionally plentiful. These correspond to those classed by Wace and Thompson as B35, B3s and B35. The ground is sometimes polished and varies from very pale buff to orange red. The paint is black or red, and sometimes both colours occur together. These wares also occur in considerable quantities in the First Settlement at Orchomenos. This stratum at Hagia Marina does not seem to have been truly

^{*} See the excellent publication in Research * I could find very little of this in the finder Grosques, 1912, pp. 200 ff.

neolithic, since at several different places on virgin soil the excavator found? objects of copper, including two daggers! of the Early Minoan type. These may of course belong to the B period, but there is no reason to think they could have fallen in from the succeeding settlement. With these, however, were found obsidian flakes, home needles and celts, very few of which were bored.

The end of the 'neolithic' occupation is marked by a sudden change in the pottery. In the next stratum the so-called Kamares was discovered in huge quantities. This as the excavator points out bears no relation to the Middle Mineau ware, but is in reality the same as the pottery called at



PIG. 1. - MINTAN POTTERN PROM PITERIN IN PROCESSION.

Orchomenos Urfirnis, except that it has linear designs in matt white superadded.* These patterns include simple bands, stars, and hatched triangles, but the lattice-tilled hand (see Fig. 2a) is commonest of all. It arises from filling up the simple band with a running lattice pattern. This design, as Dr. Soteriadhis points out.* occurs in Crete in the third Early Minoan period.

^{*} Loc ett. ju 276.

^{* /}W Fig. 15.

J 18. p. 251.

^{*} Loc off. I compare Seager, Mochlos, Fig. 49, No. 59 and University of Pennsylvania, Sphoungara, Fig. 23 c.

The butterfly pattern is also a favourite Cretan motive. The paint of the ground varies from black to reddish brown. Exactly the same variations of tone are found in the light-on-dark E. M. III. ceramic of Crete. Sometimeparts of the surface are left unpainted.

Most of the shapes are definitely askoid, as is usual with the northern Urfirms. Very typical are the large jugs, one of which is seen in Fig 2, These immediately recall the duck vases of the Cyclades. A very close parallel is afforded by a vaso from Phylakopi L with 'geometrical designs in lustrons paint now in the Athens Museum." The other duck vases and the Early Minoan spouted vases are related but more distantly. All belong to the second and third Early Minoan periods. Next in frequency come large mugs with two band handles set low (Fig. 2b). Some Urfirnis mugs from Tiryns that I saw in the Nauplia Museum are very similar. There are also several cops with band handles.10 There are besides some large spherical



Pio. 2.—Unferrate Warm series Discuss in White Patry prom Hadia Marina

pithoi with short necks and two vertically pieresd log handles set half-way down. In one instance the lower half of the vessel is unpainted. The same shape is found in the Urfirnis pithoi from Orchomonos II. exhibited in the Chaeronea Museum. With this ware must be mentioned soveral vessels in ordinary Urfirnis of the askos shape," Dr. Soteriadhis says that in one test pit monochrome vase fragments intervened between the neolithic and Unfirms strata. There are a few badly burnt must-coloured cups in the museum, one closely resembling in shape the cups found under the Herneum at Olympia.#

There was apparently no sharp division, such as occurred at Orchomenes and Lianokladhi, between the Urfirnis and the Minyan layers of the second

This is well seen on the shorts in the British Museum.

^{*} Phyladops, Fig. 74.

[&]quot; Rose fit Go be at Fig. 12.

¹⁴ Ib. Fig. 15, No. I, top row.

¹¹ E.g. loc. at. Fig. 13, No. 4, in mw 1.

¹⁹ Ach. Men. 1911, p. 168.

deposit. However, the latter ware became more plentiful towards the top. It is probably to this upper portion that a two-handled goblet of Lianokladhi Geometric ware must be assigned. It is identical in shape with those figured in Wace and Thompson's publication (Fig. 126c, and d), and is undoubtedly an importation from the Spercheios site. It is worth noting that there was little which could definitely be called Mattmalerei visible.

For journess of chronology the Cretan parallels are valuable, as they confirm the dates obtained from the occurrence of Minyan wars in Meles and Orchomenos. They give for the Urfirmis layers at H. Marina which represent a pure bronze or copper age culture, as the rarity of stone implements shows, an approximate date of E. M. III. This agrees with the fact that Urfirms first occurs in the Cyclades in an E. M. III. context. Thus it is found with the developed incised wares and wares with 'geometric designs in lustrous paint' in the tembs of Syra 10 and Naxos,14 but not in the earlier cist graves of Amorgus or in Parcs. It has more recently been discovered in the lower levels of Phylakopi L¹⁰ As articles (idols, etc.) belonging to the same stage of Cycladic culture have been found in Crete in a context " dateable definitely to the Third Early Minoan period, there is little doubt that they are roughly contemporary. Moreover, from Orchomenos II., 17 which is parallel to the lower levels of the second stratum at H. Marina, comes a cup of Trojan shape identical with several from the abovementioned tombs of Syra.18 The date thus obtained for the beginning of the Urfirms period in Central Greece agrees very well with that inferred for the beginning of the Minyan culture from the appearance of that ware in Melos. Careful observations taken during the second excavations at Phylakopi have shown that the genuine grey ware begins to be imported is at about the same time as the Cretan Kamares. From this period date about 73 per cent, of the fragments, while the importation of the ware continued into L. M. H. But the date thus obtained for the commencement of imports (about M. M. II.) gives only a terminus unte quem for the beginning of its manufacture in the centre of distribution. This, for the mainland of Greece at any rate, is certainly northern Bosotia and Phocis, for only in these districts do we find any large quantities of the ware and any number of varieties of shape." At the Aspis and Aegina settlements only imitations seem to have been manufactured. Accordingly the first appearance of the ware in Central Greece must be put at least as early as the first imports

¹¹ Ep. Apr. 1800, pp. 77-116.

¹¹ Minerack, 1904, 1905, and 1906.

[&]quot; B.S. et. avil. p. 16.

is E.g. at Kommon.

¹² The material though unpublished is visible, more or less chronologically arranged in the Charroma Missaum.

is Eq. Apx. 1899, Pl. 1X, 7 and 11.

[&]quot; It is utterly different from anything of

which the clay of Melos was capable, it could have just at Phybland for mything but no imported falicie." (B.S. A. swil. p. 17.)

In the tombs excepted by Tsommas at friming and Scakle, belonging definitely to the bronze age a consulterable quantity has been found. These sist graves are typical of Minyan burials and probably point to a Minyan secupation, see drafts and Minyan bertipation, see drafts and Minyan burials.

into Melos, say, the beginning of M. M. H., or 1900 s.c. in round numbers. Thus we get the beginning of Orchomenes III. the Minyan settlement, coinciding with M. M. H., while that of the Urfirnis stratum is contemporary with E. M. III. This seems very probable in view of the moderate length of that occupation. To the same time must belong the beginning of the Urfirnis deposit of H. Marina and of Lianokladhi II.

Now in the lowest strutum at H. Marina and in Orehomenes I, the pottery of the first two Thessalian periods is represented. In the Orchomenos case at Chaeronea Museum the following wares are displayed as coming from the bottom or Rumibautenschicht: polished red-on-white, A3β; polished black ware with knobs, A5γ; wares with matt paint on buffish ground, B38, B3e, and B35; and polished black with white paint, Pla1, with its other 'scraped' variety, Pla2. (A glance at the stratification table of Tsangli " will show that the latter wares are wrongly assigned by Tsountas to the third period. They occur in the second period with B3 δ and B3 a) Pending the publication of the material from Orchomenos it may be suggested that the A wares came from the mud buts without stone foundations, of which the Bavarian expedition found traces below the stonework of the round huts sa Judging from the quantities found in the Chaeronea Museum, the B wares were more plentiful. The stratification at H. Marina is as we have seen, quite parallel to that at Orchoments. At Lianokludhi, on the other hand, some break is possible between the first and second occupations, as only a very few sherds of B wares were found. Since, then, the 'neolithic' period at Orehomenes and H. Marina ends about the beginning of E. M. III. we must equate Thessalian neolithic with the beginmings of the bronze age and last phases of the noolithic periods in Crete. The B period in Thessaly is certainly short, and may have begun there later than in the south. At least the matt B wares are very plentiful in Central Greece, and extend as far south as Corinth, so that it looks as if Phoeis or Bosotia were their place of origin. On the other hand, the A culture probably began later in Central Greece, since Thessaly is certainly its joine.

Keeping these possibilities in mind it will be seen that the dates here proposed really agree very well with the results obtained in Thessaly itself though they put the series further back than Messra. Wace and Thompson writing before the second excavations at Phylakopi propose. Thus at Zerelia Λ wares occupy the first four periods, but besides rare shords of B wares (including Dimini ware) beginning in the third period we have only the monochrome Γ3 to occupy the long period till Minyan, L. M. III. and

In view of the mainland units, I incline to the Berlin date for the X11th Egyptian dynasty.

three distinct architectural periods (Bulle, Orthonome, p. 55). This will serve well to being the end down to L. M. H. or HI.

[&]quot; Probledovic Thamily, Fig. 63.

Hille, Orchamenca (vol. L), p. 19.

[&]quot;Mr. Wace tells one he has men these shorts from the excavations of the American School.

Problitoric Theorety, p. 285 f. and Fig. 131.

early Geometric wares begin to appear in the eighth layer. Again at Tsani the first three settlements are marked by A wares. In the second and third B wares are also common. In the fourth a little Urfirnis is found but till the appearance of Minyan in the eighth the settlements are only represented by sherds of U3. Tsangli seems to have been partially deserted during the end of the third and beginning of the fourth periods, so cannot be relied on. But Rakhmani is also confirmatory.

We thus get the following table for the chronology of the Northern Series.

Carta 3	Centititie R. M. I	E. M. H.	E. M. 111. M. M. 1.	М, М, П	M. M. 111.	LM, L	LALIL	F W III
Ommon. MEXON	Fire		Second Urfirms	Third Minyan and Mattmalerol commun deposits commun age Minyan				Fourth Myomean Myomean
H. Marini	A8.81 Chalcol							
	AT 8	BSA	Unitrale					
Linnokindht Neelithy L. Hed my white			Satilament II. Velicais	Settlement III. Hand mails Geometric Minyan ware imported			Sits Deserted	
W. Thess	Neolithic L Red on white	Neolithie 11. 834	Urilinia imported	Chabolithic periods Momehrone ware #3				Myomean influence an influence is
P. Tlima	Neclithic L. Rei on white		nrine ture	Chalcolythic periods Mine Crusted survey Ph Miny an huris				

It has been important to find a limit for the beginning of the Minyan occupation in Central Greece in view of certain chronological difficulties in Mr. Forsdyke's theory. Now however having shown that we may suppose this occurred during the earlier part of M. M. II., say 1,900 n.c. at latest, we may go on to consider the shapes recently uncarthed in the district in question. The most important come from the site which we may call Piperis after the owner of part of the estate in which the deposit was

[#] Prehistoric Thomaly, p. 159 and table.

settlements destroyed by firm, ilk p. 135.

[#] Right layers were found-apparently

discovered. Dr. Soteriadhis found no stratification but believes the site a sort of necropolis. The interest, however, of the site lies rather in the large number of complete Minyan vessels found.

Before these discoveries the only Minyan forms known in Greece were cops or goblets. This makes Mr. Forsdyke ask where are the jurs and jugs 130. We now know that it is unnecessary to go to Troy for the answer. The finds from Piperis include these and all are in the genuine grey buchhero which Mr. Forsdyke rightly calls the true Minyan. A group of the vessels as they stand in the Chaeronea Museum is shown in Fig. 1. It is true that all have been slightly restored but in every case the restoration is absolutely certain. In the first place, they show that the cup with high swung bandle, to use Mr. Forsdyke's translation of 'bochgeschwungene,' is not really so typical a form in the centre of distribution. It seems indeed to have been the most popular in the foreign market, but from Piperis we have



Proc. J. -- Vanus vanus Mychan. [Proc. J. H. S. anner. p. 136.]

only one such cup as opposed to nine goblets of the Lianokhalhi type, six craters shaped like the Warrior Vase, four large amphorae and several other vessels.

This is of high importance since it is in this style of handle that Mr. Forestyke finds the Trojan influence most conspicuous. But Trojan parallels to the little strap handle of the 'Lianokladhi goblets' would be hard to find. On the other hand it is quite conceivable that the 'high-swung' handle may be merely a development of the latter. Thus the handles of the second of the cups shown in Fig. 3 n simply represent a prolongation of those of the first; but this resembles the Lianokladhi type.

[&]quot; Rev. Et. Gree. p. 200 f.

[#] J.H.S. EESTV. 7- 152

[&]quot;They are Minyan in form though not in fature.

Thus, if the Lianokladhi type is more typical, as the recent finds suggest, there is no need to go to the Trond for the origin of this handle type Moreover in Greece these Minyan handles are essentially band handles, while the high swing handles of the Trojan vessels cited are throughout roll handles.# Band handles are typical of the North Greek Urfirnis and go

back to the first Nephthic age of Thissaly.

Nor do the other forms seem at all characteristic of Hissarlik. The large craters of the Warrior Vase shape can certainly be paralleled in the Trojan series 22 though only before the sixth city. But they are rare and show little variety. No conclusion, then, can be based upon them. Besides the varieties from Piperis, some with two and others with four handles, some with a foot and others without, show that the form was locally developed and several variations were tried. The large amphorae, notwithstanding a Trojan look about the lip, are not the least Trojan in form. 44 Finally, the pithos is a little like No. 2517 of Schmidt's catalogue, but this is by no mean typical of Hissarlik. Both have affinities with the Cycladic pithoi. Yet the presence of such large vessels in such quantities surely invalidates Mr. Forsdyke's suggestion that all the genuine Minyan ware in Greece was imported from Troy. I can find no analogy for the transportation of such vessels across the sea in prehistoric times. It remains then to see if we may admit that the technique was derived from Troy. The forms so far enumerated are not typical of Hissarlik, as we have seen, and, in fact, I can find nothing essentially Trojan except perhaps, the ribbed stems. I could see no sign of any of the forms so characteristic of the Troad, the Senae audienteralar, the string-hole jar, the 'face-urn,' nor yet the spherical-bodied spouted jugs and cups.

But, further, to derive the Minyan technique of Central Greece from the ceramic of Troy VI involves chronological assumptions very hard to accept. It has been shown that Minyan ware must begin in Greece very little later than M. M. II. Mr. Forsdyke has accordingly to push the beginnings of the 'Homeric' city back to 2000 a.c. But the earliest imported Mycenean ware figured in Schmidt's catalogue is L. M. IL. The majority of vessels, such as false-necked vase No. 3386 and craters 3394 and 3395, are definitely L. M. HI. and fairly late in that period. But imported wares only give a terminos post quem. Thus for the theory in question, it is necessary to suppose that the sixth city lasted a good 800 years from cirva 2000 a.C. to circa 1200 a.c. Neither the ceramic nor the architectural remains of the Mycenean' town justify us in admitting such a long period; for this was a period which saw the end of the First and the building and rebuilding and end of the Second Palace at Knossos, as well as the great change from the brilliance of the later Kamares to the decadence of the pottery in 'Re-

[&]quot; This persists even in some of the [1] Misyan vessels of Troy VI., e.y. Schiermoun Sammi,

[&]quot; Cf. s.y. loc ail Nos. 1,809, 2,514, and 2.515. Only about five seem to have been

found. None have ber-

[&]quot; The shape resembles the early jugs from Knowns [R.S. M. ix. Fig 66 c and o)

[&]quot; rig. No. 5,435. No. 5,406 is almost cartainly L. M. HI b, not L. M. L.

occupation period. Besides the total absence of earlier Greek sherds is very peculiar. We might at least expect to find some sherds of the geometric Mattmalerei which from the beginning is found with Minyan in Orchomenos III. But these wares are conspicuously absent. The pottery classed by Schmidt so as local Trojan imitations of Mycenean wares, though having mutt paint, has no resemblance in its ornamentation to any Mattmalerei I have yet seen from Orchomenos. The absence of this ware, indeed, speaks decisively against any early connection between Central Greece and Troy. The presence of so-called Minyan ware in Troy VI. does not necessarily raise the date of the foundation of that settlement, since this ware continued to be imported into Melos down to L. M. II. This is really a much more probable date for the beginning of the sixth sity than M. M. II.

Thus we have shown (1) that on chronological grounds it is impossible to derive the Minyan of Central Greece from the ceramic technique of Troy VI. (2) That in view of the variety of forms and size of the vessels found at Piperis, Minyan cannot well be an imported ware in Central Greece. (3) That the absence of typical Trojan forms among the new shapes excludes any immediate dependence on Trojan ceramic. (4) That even the 'high swung' handles are not necessarily Trojan in origin. Accordingly, pending further evidence, we must reject Mr. Forsdyke's invasion theory. But we must also admit that the author has drawn attention to a real connection between the pot fabrics of Central Greece and those of the shores of the Hellespont, thus raising an important problem. It remains now to suggest

a solution.

The natural place to look for connecting links between the Troad and Greece is the Northern Cyclades, and here plenty of evidence is ready to hand. The visitor to the Cycladic Room of the National Museum at Athens cannot full to be struck by the resemblance in form and technique between some of the mugs from the tombs of Syra and Naxos and those in the adjoining hall from Hissarlik. Thus the jug No. 5115 from Syra, with its spherical body and 'high swung' roll handle " recalls a well-known Trojan shape. The polished red surface is indistinguishable from that of Schmidt's second period of ceramic from Troy II.-V. Nor are these only isolated examples, but there are several such mugs in the cases in Athens and at Hissarlik they are of a typical shape. With those at Athens are also saucers of the same red ware resembling Trojan shapes. Here we have definite and unmistakable evidence of connections with the Troad. But these Cycladic Tombs also seem to fall between E.M. III. and M. M. I. This conclusion is based on the high development of the incised ornament and the beginning of 'geometrical designs in histrons paint '40 as well as from imports to Crete. The Trojan influence, however,

15 Supring p. 190.

[&]quot; Treft and Illim, p. 284 f.

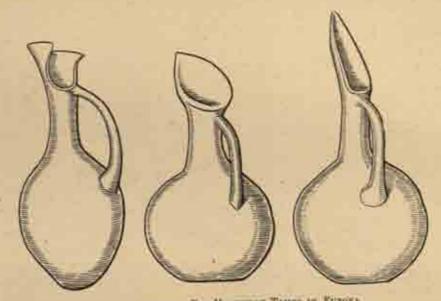
⁼ Cf. 'Eq. 'Apx, 1899, Pl. 1X. Non. 7 and 11.

⁼ Cf. Schliemann Somml. Non. 1,198 f.

Kahristedt has noticed this ofth, Mitt. 1918, p. 182.

⁴⁰ Edgar in Phylokopi, p. 9d.

only becomes apparent late. The early tombs of Amorgos and the Pelos cemetery do not show it. The southern limit of connection is found in the duck vases of Phylakopi I. A fine example of this class comes from Troy in the third period of the technique. As we go north, the connections with the Troad become more strongly marked till at the northern limit of the Cycladic culture, in the 'pre-Mycenean' tombs near Chalcis in Euboca. Trojan, and Cycladic forms are about evenly balanced. Thus of the jugs on Plate Θ of Mr. Papabasileios' publication, three of which are reproduced in Fig. 4, all are very Trojan looking. Again, all the vessels of the top row of Plate H (except perhaps the first) can be paralleled in Hissarlik. Two examples are shown in Fig. 5. On the other hand the frying pans. and the idel of Fig. 2 are definitely Cycladic. The developed



PH. L-JUGS FROM PRE-MYCHNEAR TOMBS IN KURNES

form of the tombs as compared with those of Syra, the shape of the dagger shown in Fig. 13 and the wheel-made jug suggest that these tombs are some of the latest in the Cycladic group. But they definitely carry on the Cycladic tradition. The number of silver articles is also noteworthy.

The above considerations all go to prove that the northern Cyclades were in close connection with Troy II.-V. But the influences probably went in both directions. Thus the use of paint may have come to Troy from the South. The painted pyxis (Troja and Rion, Fig. 158) of the second period

a Schl. Sammi No. 2,068.

For there see Papabusileico, Repl vas és EsBaig ágyalos rápos, Athons, 1910.

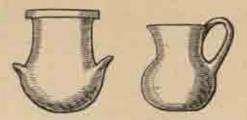
as Of. Schliemann's Rim, Figs. 1161 ami

t162 (hand-made) and Fig. 1152 (wheel-made).

For Sci. 4th, and 6th see above; for the 5th of Schi. Sammi. Non. 2,235 and 2,314.

es In Fig. 14 und Plate B.

is like one from Syra in its design of lines and dots of paint." The spiral, however, did not reach the Trond till the third period. The spirals of the (?) lid, shown in Troja and Ilion (Figs. 166, 167) " are very Cycladic. But concentric circles such as are common throughout the Cyclades appear in the second period.48 Many other ornaments of that period have a Cycladic look 49 On the other hand, the use of the wheel does not seem to have been taken over by the Cycladic folk." The inference from all this is not conquest but close and continuous interconnection during the Early and well into the Middle Cycladic period. The geographical situation of the group explains the distribution of this Cyclado-Trojan culture. The Cyclades themselves must have formed to some extent a barrier to navigation between the northern and southern halves of the Acgean. For though easy to sail along, primitive man must have found some difficulty in sailing through such a close-set belt. Hence the gradual disappearance of Trojan connections towards the South. Valuable articles like Melian obsidian could, of course, be brought through, but no frequent intercourse was possible. If we



Fro. S .- Curs of Tanzan Share Page Evenue.

remember this fact we shall more readily understand the divergences between the Northern cycladic pottery and Melos. In the latter island frying pans' are not found and it never produced an incised ware to equal in finish and elaboration the Naxos and Syra vases. On the other hand, it quite soon produced a large supply of painted vases. Indeed it is instructive to note the distribution of painted wares in the Cyclades in the Early Period. At Melos they soon became the rule. At Naxos, too, they are very plentiful, but not to rival the incised wares. From the Syra group we have only a few and from Euboca none at all. From the connections with Hissarlik in the latter we get a little before 2400 a.c. for the best period of the second city to which Schmidt assigns the pottery of his second stage of technique. This agrees well with general probabilities of Aegean chronology and allows us to place the Homeric city in its natural place in the Late Minoan Age certainly not before 1500 a.c.

M Eq. Apx. Pl. VIII. 11.

⁴⁹ Equal Scal. Sciencel, 2, 470.

^{*} Schlimmen Summit 2,412

Cf. the neck band Troje and Hon, Fig.

Ph. V 17. Note also the potniille work of

Proy.

The one jug from Kahes much be an import.

si Troja und Ilian, p. 250.

It remains to apply these results to the elucidation of Mr. Forsdyke's problem. Now that we have seen a genuine case of strong Trojan influence in Euboca we can no longer accept the invasion theory. The explanation of the parallelism between the Minyan technique of the mainland and the ceramic of the Asia Minor coast lies rather in recognising the existence during the preceding period of a more or less unitary culture through the North Aegean and including the Troad. The development of this resulted in the appearance of parallel phenomena on either side of the Aegean. It is not needful to suppose that either of the new cultures thus evolved under different influences was in a relation of one-sided dependence to the other.

I should like, in conclusion, to express my thanks to Mr. Wace, Director of the British School at Athens, for his kind assistance in collecting material, and to Prof. Myres for several valuable suggestions.

V. GORDON CHILDE.

THE NEREID MONUMENT RE-EXAMINED.

WHEN the fragments of the Noreid Monument, which had been discovered by Fellows, were brought to England they were of course examined by all the experts in classical art, Cockerell Falkener, Watkiss Lloyd, and others. It was Cockerell who first laid down the lines which all other students have accepted as obviously correct. In a letter to Newton. or rather a note added to the letter, printed in the Classical Museum (vol. v. 1848, p. 194), he wrote regarding the peristyle which is the key of the scheme-' that such an arrangement of the cells may be obtained from the fragments themselves and the observations made by Mr. Rohde Hawkins [the architect to the expedition] I was able to demonstrate, when by his ingenious father's introduction I had the honour, as a veteran in untiquities of this kind, to be consulted by him. Rohde Hawkins had many measurements and sketches taken at Xanthus before the stones were shipped for England, when the backs of the slabs were sawn off for transport [and] the original joints were in some cases lost.' He made a restoration, following Cockerell's suggestions, which is represented by a drawing at the British Museum and by a description printed in the Civil Engineer (vol. viii.). Fellows made another attempt; but while following the same general scheme, he proceeded on the assumption that he had discovered all the slabs of one of the sculptured friezes. His result is embodied in the model now in the British Museum. Although his restoration of the structure was certainly too small, he associated many of the sculptured slabs together in groups—doubtless with the assistance of Scharf, his draughtsman-in a way which is convincing.

A third restoration was by Falkener, who showed himself a very accurate observer; indeed his examination of the Noreid Monument was probably the most minute essay in reconstruction which up to that time had been made of any destroyed building. By questioning Fellows and Hawkins he brought out some additional facts. He published his revised scheme in the Museum of Classical Archaeology (1851), and an elevation at the British Museum with the dimension 20 feet 71 inches figured across the frieze is probably his work, as the measurement agrees with his estimate.

A few years ago I worked over the material to try to discover which of the restorations most closely accorded with the facts. I came to the conclusion that Falkener's criticism of Fellows was entirely justified, but that he himself had erred (almost necessarily by following the data given to him), and that the scheme of Rohde Hawkins was, so far as it went, the most correct. I wish now to re-examine the whole question in detail, with a hope that the discussion may prove of use when a final restoration of the monument is attempted.

Since Cockerell pointed out the evidence, all have been agreed that the monument was a temple-like structure consisting of a cells and pteron, the latter having a sculptured epistyle and the cells a frieze. The entrance to the cells was recessed in antis. This superstructure was supported on a

high basis or podium.

H.S.-VOL XXXV.

Along with Cockerell's letter to Newton, referred to above, he sent him. a drawing which was engraved for Newton's article on the Mausoleum. Although in the main Cockerell based this drawing on Follows' results without going minutely into the evidence, he made some variations which we shall see were probably corrections. He did not recess the back of the cells deeply between the antae; he put a doorway in the base of the structure; and he showed the masonry of the podium as built of courses alternating wide and narrow. The substructure of the monument still exists. Scharf made an excellent drawing of it, and a photographic illustration is given in Benndorf and Niemann's Reisen in Lykien (vol. i. Pl. 24). It stands on a slope above a sudden fall in the ground. From Fellows' plan of the site at the British Museum it appears that the steep fall represents a giving way of an old retaining wall which passed just in front of the monument. The substructure was constructed of heavy blocks of the local limestone, some of them fully eight feet long, laid in level courses, with irregular but carefully fitted 'heading joints' in what may be called a semi-cyclopean manner. The four courses which showed on the more exposed side were together about II feet high; rough bosses were left up on the faces of some of these

Fellows gave the size of this substructure as 33 by 22 feet. These dimensions are in round numbers, and they are given more accurately by Beandorf and Niemann as 104 m, by 6:795 m, = 22 feet 4 inches by 33 feet 2 inches. The relation of length to width was evidently intended to be as 3 to 2 at some level above the substructure.

The Great Course and the Podium.—On one side of the monument another course of masonry remained in position, being set in an inch or two from the lower work. And there was evidence that above this 'great course' there was again a change in character of masonry, or in size, or both. Fellows says 'the upper course now remaining was set in three inches,' but Benndorf's dimension is again more trustworthy.

On the substructure the marble masonry did not follow at once, but there was first a broad course of limestone blocks [the "great course"]. Of these only four stones—of the northern long-side—are remaining for a length of 9082 m. They are 1.23 m. high, worked smooth on the front face, and are set back from the substructure about 0.045 m. The upper surface of this course has been worked for a width of 0.56 m. from the outer edge as a bod for a course which followed next. Hawkins measured the breadth of this bed as 1 foot 9 inches = 0:534 and rightly supposes that this bed formed the

basis for the 1 foot 4 inch blocks of the larger frieze.' 1

We may as well have the actual words of Hawkins too: 'Upon the base which still exists [i.e. the "great course"] are the marks of a bed worked for the next course; this bed extends I foot 9 inches inwards from the face of the work. It is evident, therefore, that the next course of stones must have extended to that size. Now there is no evidence of any other stones being placed upon this [the prepared bed] except those of the Parian marble; these stones are I foot 4 inches thick [on the bed], and therefore could only have been set in 5 inches from the face of the base."

There are two insecure assumptions here, one being that the slabs of the 'broad frieze' 16 inches thick followed directly after the 'great course'; and the other that (if it did so follow) it must have been fixed close to the rough masonry at the back. There was quite a custom in Asia Minor of building walls having alternately, high courses with a wide cavity between the stones on each side of the wall, and narrow bonding courses. This might or might not apply to the marble facing blocks of our monument, but I think it probable that in any case they were in high and narrow courses alternately, as Cockerell assumed. It is impossible, I believe, that the broad sculptured frieze should have been set directly above the 'great course' so as to have its face 5 inches back from that course. This frieze has a projecting ledge which supports the feet of the figures, and this ledge is nearly 2 inches up from the bottom of the slabs. If, therefore, they were fixed in the way suggested there would have been a narrow, deep groove showing perfectly black in the sunlight, which would have separated the 'broad frieze' from the great course. Again, the 'narrow frieze,' which all agree in putting high up on the podium, has an exactly similar ledge, so it is probable that in both alike the sculpture stood out beyond the general face of the masonry beneath the friezes. Finally, the evidence as to the size of the superstructure is, as we shall see, so clear and convincing that it is certain that the broad frieze was not fixed with its face 5 inches inside the line of the great course." There may have been a course or two of murble between the great course and the 'broad frieze,' or perhaps this sculptured band was set directly on the great course. In either case the background of the sculpture must have been flush with the masonry below it, and the 'great course' really gives thesize of the podium. The 'shelf' beneath the reliefs is stopped near the corners, so that the angles are continued to the bottom. The angle stones of the frieze are 2 feet 3 inches on the return, but these have been cut out at the back (thus, -1) so as to leave the thickness about 16 inches. Compare a similar stone at the end of a hollow wall at Delphi (Durm, ed. 1910, p. 164). The great pediment slabs of the Parthenon, it may be recalled, are hollowed out at the back, and the sculptured frieze is fixed with a cavity behind it. My conclusion is that the stones of the 'great course,' which were about 4 feet high, did not form a second plinth with a set-back above it, but the

² Beundorf and Niemann, Ecoso, p. 90.

² Oveil Engineer, vol. viii.

'broad frieze' followed it directly, being fixed with a hollow space behind, so that the background was flush with the 'great course.'

The podium must have been of considerable height, for space had to be provided for the two 'friezes' or sculptured bands which surrounded it. As the angle blocks of these friezes show, the walls of the podium were battered, something about an eighth of an inch to the foot, giving an inclination much the same as that of the diminution of the columns above. If it was 16 feet high the decrease would thus have been about 2 inches on each face. At the end elsevation of the monument the width of the substructure was 22 feet 4 inches, the width at the 'great course' or bottom of the podium was about 22 feet 1 inch, and the width at the top of the podium would be about 21 feet 9 inches, allowing for the decrease caused by the battering of the faces. As we shall see even this is rather too small an estimate, and the battering can hardly have been more than 11 inches, giving a width of 21 feet 10 inches.

It seems probable that there would have been a door in the podium, as Rohde Hawkins supposed, giving access to some simple stairway to the upper story and possibly also to the actual tomb chamber. The stair may have turned at a right angle and landed in the pteron. The stone 963, which has three rows of egg and tongue of a similar style to the monided course under the order, must be the lintel of a door. It is quite certain that the stone belonged to our monument. Falkener writes: The cornics of the stylobate [podium] is remarkable as consisting of a double row of egg and tongue moulding. An unappropriated fragment of the natural stone of the country exhibits a triple row of this ornament. It does not seem to have been noticed that this moulding has a proper termination at the left hand and that the amount of projection of the eggs and tongues at the end is worked fair. On the lower side, beginning from three or four inches in from this end, there is evidence that the lintel was fixed over a wide plain stone-post or jamb. (Compare some door jambs at Trysa.)

If the site of the monument was levelled, and this seems a probability from Fellows' survey, two courses of the substructure may have been exposed (judging by the height of the accumulated soil shown in Scharf's sketch), although Fellows shows only one course exposed. There would even in the latter case have been height for a low doorway between the ground level and the top of the 'great course,' as suggested by Cockerell. This could not however have been the case at the end of the monument which has been illustrated, as here the substructure was complete to its full height. We have, I believe, no record of the condition of the other end, and it is perhaps more reasonable to assume the position suggested than to suppose that this door with its limestone lintel rose above the 'great course.'

The narrow frames of the politim scenes also (judging from the indications on Fellows' plan of the stones as found) to have had the angle stones cut to the — form. I find that Fellows

does say that the Podium was built [cased] with large blocks of marble the same size as those of the large frieze; those required narrow alternate bounting courses.

The Narrow Frieze of the Podium.—As we have all four angle stones of the narrower podium 'frieze' and most of the intermediate blocks, it becomes a most interesting pazzle to arrange them in their proper original relation. Fellows started with the assumption that he had recovered all the

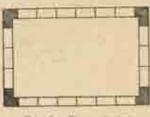


Fig. 1.—Plan of the Nabrow Frieze.

stones of this band, and on this based his whole restoration. Falkener showed that Fellows' scheme was not according to the architectural evidence and was far too small. He therefore added two blocks to this band. It appears from the superstructure that Falkener's restoration was itself too small by more than a foot in each direction, and this calls for a third additional stone in the second frieze. If we now attempt a rearrangement of the stones on this basis we come to the solution

shown in the diagram (Fig. 1). It is evident that this is far the simplest and best scheme in itself, the corner stones being symmetrically disposed with their long-sides facing the two fronts of the monument. On these corner-stones similar sculptured groups in two cases show that a pair of them must have been arranged to balance, and the other pair fall into place in consequence. The existing parts of this band make up a total length of 94 feet, including both faces of the four corner-stones. As the existing intermediate stones average about 4 feet 0 inches, it appears that the original total length must have been about 107 feet 6 inches, if we are right in supposing that three stones are lest. If now we break up this perimeter we obtain two short sides of about 21 feet 6 inches and two long sides of about 32 feet 3 inches. This in both cases is about 7 inches less than the extent of the great course and within about 3 inches of what was estimated. As this seems promising we may now venture to advance a step further. On looking through the sizes of the stones of this frieze, which are accurately given in the B.M. Catalogue, it will be noticed that, irrespective of the angle blocks, seven of the stones vary in length from 4 feet 2 inches to 4 feet 31 inches, and eight vary from 4 feet 5) inches to 4 feet 10 inches. Let us assume that the short stones belong to the shorter sides of the monument and the long stones to the longer sides. We now find that the four angle stones plus any six of the seven short stones make about 431 feet for the two fronts, the half of which is 21 feet 9 inches, which is the same as our former estimate of the size of the podium. This result at once justifies the assumption that the short stones were on the short fronts.

We may now try to pick out the actual slabs which were associated in the two fronts of the building. We have first to throw out one of the seven short stones, and there can be no doubt that the one with the scaling ladder must go, for that was certainly associated with stones which could not, if our general reasoning has been right, have belonged to the narrow fronts of the monument. The six which now remain so perfectly fall into two groups and agree with observations made by Fellows, Falkener, and Michaelis as to the obvious sequence of several of the slabs that there cannot be any doubt whatever that we have obtained the true arrangement. These groups are:
(A) 868, 866, 874, 882, S71, and (B) 876, 877, 879, 880, 884. One subject is a Battle, the other a Surrender of a Lycian city.

	S68 Advance of		866 Frings of	1	N.W. Exp (d) 874 Centre of	į.	882 Fringe of	ï	871 Advance of	Ŷ
	Infantry.	·	the battle.	J.	the struggle. S.E. Kan (3)	d)	the battle.	1	Infantry.	
	876		877		579		180		884	
1	Wall-i	1	City continued.	1	Satrap	1	A surrender.		Prisoperu led all.	1

Thus arranged the subjects of this frieze work out perfectly. Fellows, Falkener, and Michaelis have all seen that the first four subjects of End B were together, but Falkener saw further that the fifth slab seemed to belong to the same composition; he should have confidently associated the group which appeared to represent prisoners led away with the group of Harpagus [the satrap] on the south-east side, but it could not belong to it. he had to conclude, for his measurements did not allow that it should have done so. For myself I have not worked up to this foreseen solution; I have come to it from a consideration of the dimensions exactly as has been explained. Finally, the dimensions thus obtained for the two ends of the monument tally perfectly with each other and with the dimensions required by the size of the podium. Taking the several measurements of the particular stones we obtain 21 feet 10 inches for one end and 21 feet 101 inches for the other, and 21 feet 10 inches is the dimension within an inch which we said was probable for the top of the podium. The proof is now so manifold that it is absolutely certain that we have found the right arrangement of the stones for the ends of the monument (Fig. 2).

On considering the slabs as yet unplaced we shall see that they fall into two groups: (C) A sortie from a city, and (D) The siege of a city. Taking Falkener's arrangement of these subjects as a basis, I should bring his LVII, and LVIII. (881 and 867) to the other side after his LIX. (873). This would push the city of the sortie close up to the right hand end (cf. Michaelis*). The siege side had, as all agree, the scaling-ladder slab next the left-hand end then followed the two slabs as in Falkener's disposition, and the next- may have been other similar ranks of men advancing to

the left.

We may now check the length of the actual stones making up the sortic subject. This gives a total length of 32 feet 7 inches, and within an inch bears the same relation to the dimension of the long side of substructure as the length of the end subjects did to its short sides. The narrow 'frieze'

* Who puts one intervening slab.

^{*} The extra inch allows the hattering on the long sides to have been 2 inches.

of the podium was thus only about 3 inches shorter than the "great course" at the ends of the structure, and this proves the correctness of our reasoning in regard to the size of the podium, and this is again confirmed by the fact that the masonry at the British Museum, which was built up merely of a suitable size to support the superstructure, is 21 feet 11 inches wide. It is certain that the narrow frieze was at the top of the podium under its egg and tongue capping moulding, for along the top of the frieze slabs runs a head and reel mould which spaces accurately with the eggs and tongues of the cupping.

Falkener made his end dimension at this height 20 feet 5 inches. By starting with a measurement 4 inches too short for the end of the substructure and accepting the set back of 5 inches above the "great course" he could only obtain a width of 20 feet 7 inches at the frieze of the order," where Robde Hawkins had given a dimension of 22 feet, which he derived, as he says, by working down from the size of the pediment which is known from the stones which exist.

We now have this dimension of the pediment accurately worked out in the actual restoration in the Museum. It is 25 feet 81 inches in extreme width from cymation to cymation. The comice projects from the epistyle fully 2 feet, therefore the width at the epistyle was about 21 feet 7 inches.

Some whole stones of the epistyle give columniations of about 6 feet 9 inches for the fronts (as in the Museum restoration). Three such columniations with an allowance for the projection of the epistyle beyond the centres of the outer columns give a width of front at the epistyle of about 21 feet 6 inches. Both these results agree in being about a foot more than Falkener's estimate.

The Cella Frieze.- The width of the cells is derived from the total width by deducting the known dimensions of the lacunar stones. Falkener made the width at the antae 11 feet 31 inches; it must in fact have been about a foot more. I estimate the width of the cella from outside to outside the walls as little less than 12 feet. This dimension is important as it leads up to a restoration of the cella frieze. Three lengths of this frieze (898, 899, 900) were clearly always in connection with one another as they now are in the Museum; on these stones is sculptured a feast of sixteen persons with several servers. At the left hand end is a large wine crater, and there are traces of a similar vessel on the right hand of the existing part of this frieze. As all the four angle pieces exist the right hand termination of the length of frieze we are now discussing must have been one of them, and the total length of the set cannot have been less than 15 feet. These three slabs must therefore have been part of one of the long sides and they must have been completed by other stones, one being a corner return. If there was one intermediate slab (Fig. 3), the whole must have been about 20 feet long. As this would agree very well with three of the flank columniations it is

[&]quot; To obtain even this he seems to have pushed his columns too for out on the mondred capping of the podium.



The twenty-two blocks follow in order from the S.E. corner. It may be dealted whether the permitimate block in the second row should not compy a similar position in the fourth, and its place be taken by the fourth block in the fourth row. PIG 2.—REARBANGEMENT OF THE SECOND PRIBER.

a likely solution. It has been observed that this banquet is 'the feast of averyday life' (Catalogue, p. 31). A very similar feast of sixteen persons is represented at Tryss, and in that case several dancing girls are associated with the subject. This makes it probable that the one girl who appears on our slabs is also a dancer.

Two stones now widely separated at the British Museum (901 and 906) are so exactly alike in general character that they must have been disposed to balance one another. They must therefore have been the ends of one length of frieze, for each piece has a return end, one to the left, the other to the right. Another stone now associated with the first stone of the pair just mentioned seems to be properly so placed, although in the Catalogue another fragment is interposed. On the stone 903 is carved a single figure reclining and drinking from a rhyton, which terminates in a griffin's head. Similar reliefs are frequently found at Lycian tombs and elsewhere. The man is described as a dignified bearded figure wearing a broad tarnia. A dog lies beneath the couch as in the usual type of sepulchral banquet relief " (Caralogue; p. 32). This should be the person for whom the monument was erected; the two groups, one on either hand, would then be mourners, and their general character seems to justify this view. Near the left-hand angle a man leads a horse, while another nearer the centre carries 'an object like the satrap's umbrella" (Catalogue, p. 31). Both the led horse and the umbrella are signs of personal dignity. On the left a man and woman talk, and on the right a group of men converse together. The three stones together in their present state make up a length of nearly 12 feet, and would thus be suitable for one of the ends, the defunct being in the middle and mourners on each side. The angle stone 906 is 3 feet 11 inches long with a proper joint to the left. The angle stone 901 is 3 feet 114 inches long, and probably the end represents a joint. The intermediate stone 903 is 3 feet 10 mehes long, with a proper joint to the left, and the subject seems to be complete. There is thus high probability that these three stones averaged nearly 4 feet long. Michaelis shows the right-hand joint of 203. His illustration of 201 suggests that it was an inch or two longer. Follows put the stone 901 at the end of the cella, so it must have seemed to him suitable for the position. The scheme is so exactly similar to a sepalchral banquet with groups of mourners on either hand sculptured over the doorway on the front of a tomb at Hoiran in Lycia (Benndorf and Niemann, vol. i, p. 33 and Pl. V.) that little doubt can be possible that this subject so treated was on one of the ends of the calla. Michaelis rightly saw that the two stones with the groups of mourners on them formed the terminations of one length of the trieze, but he was forced by the wrong dimensions to which he worked to place them on the side of the cella and to associate with them fragments unsuitable in scale and subject. Two other fragments at the Museum were, it is clear, always

says: "We find on the cells a lummal procesation, amongst the figures of which is the horse of a deceased warrior."

² Compare the Merchi tomb in the E.M. A very similar composition accurred on one of the Sulon sarcophagi.

^{*} Since writing this I and that Falkener

together as now (904 and 905). Fellows says they formed one stone, and in the Catalogue it is added that this stone was sawn in half for transport (p. 32). This last point seems to be a mistake, as the fragments appear to be divided by a fracture; but in any case they once formed part of one stone. This stone must have been more than 9 feet long; the termination on the right hand is lost, but at the left it has a sculptured return. The subject of the sculpture on the front is a sacrifice, a subject which would be appropriate for the entrance front.

The frieze, which is described above, of one of the flanks was made up of stones about 4 feet 8 inches long; this again suggests that the sacrifice stone, which must have been at least twice as long did not belong to a flank. All the restorers indeed agree in putting it at one end of the cella. When we find that the altar of sacrifice, which was the centre between groups approaching from both right and left, is at a distance from the sculptured

return equal to half the width of the cells, we may accept it as proved that the Sacrifice was in fact at one end of the Cells.

We have some check on the general arrangements from possessing all the four angle stones; as shewn in the diagram they suit perfectly the disposition which has been arrived at.

One small fragment, No. 943, is of a horseman exactly like the warriors and hunters of the epistyle. As it was hardly possible for a galloping horseman to have belonged to the subjects described—a feast, a sacrifice, a sepulchral banquet—we must assign it to the fourth side. Now on the right-hand return of the subject of the sepulchral

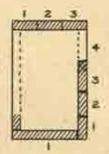


FIG. 3. -PLAN OF THE CRIAL FRIERE.

banquet and mourners, there is sculptured a flying Victory, which would find its place at the left-hand of the second long side. The commission is obvious that the sculpture here represented a battle, and the whole evidence shows that the frieze of the cella was disposed thus—

- A. Funeral sacrifice at the entrance end of the cella (904, 905).
- Sepulchral banquet and mourners at the opposite end (901, 903, 906).
- C. Seens of feasting on one of the long sides (898, 899, 900, &c.).
- D. Battle scene on second long side (943, &c., and Victory).

A fragment of a feast or sepulchral banquet (902) has been associated with the more perfect sepulchral banquet (903). It does not, however, conform so perfectly to the type of the banquet of the dead, and it could not have found a place in the same length of frieze if the scheme set out is correct. It is difficult to understand what meaning the two reliefs together could have had unless the tomb was erected for two men. It is on a stone only I foot 10 inches long, with a joint at each end, and it seems impossible that such a stone could be interposed in one of the end friezes. This relief, No. 902, may have been the 'master of the feast' on the long side of the cella, or there may have been additional frieze sculpture within the antae of

a likely solution. It has been observed that this banquet is 'the feast of everyday life' (Catalogue, p. 31). A very similar feast of sixteen persons is represented at Trysa, and in that case several dancing girls are associated with the subject. This makes it probable that the one girl who appears on our slabs is also a dancer.

Two stones now widely separated at the British Museum (901 and 906) are so exactly alike in general character that they must have been disposed to balance one another. They must therefore have been the ends of one length of frieze, for each piece has a return end, one to the left, the other to the right. Another stone now associated with the first stone of the pair just mentioned seems to be properly so placed, although in the Catalogus another Impreent is interposed. On the stone 903 is carried a single figure reclining and drinking from a rhyton, which terminates in a griffin's head. Similar reliefs are frequently found at Lycian tombs and elsewhere. The man is described as a dignified bearded figure wearing a broad taemin. A dog lies beneath the couch as in the usual type of sepulchral banquet relief \(^{\chi}(Cahclogue, p. 32). This should be the person for whom the monument was erected; the two groups, one on either hand, would then be mourners, and their general character seems to justify this view. Near the left-hand angle a man leads a horse, while another nearer the centre carries an object like the satrap's umbrella" (Catalogue, p. 31). Both the led horse and the umbrella are signs of personal dignity. On the left a man and woman talk, and on the right a group of men converse together. The three stones together in their present state make up a length of nearly 12 feet, and would thus be suitable for one of the ends, the defunct being in the middle and mourners on each side. The angle stone 906 is 3 feet 11 inches long with a proper joint to the left. The angle stone 901 is 3 feet 114 inches long, and probably the end represents a joint. The intermediate stone 903 is 3 feet 10 inches long, with a proper joint to the left and the subject seems to be complete. There is thus high probability that these three stones averaged nearly 4 feet long. Michaelis shows the right-hand joint of 903. His illustration of 901 suggests that it was an inch or two longer. Fellows put the stone 901 at the end of the cella, so it must have seemed to him suitable for the position. The schame is so exactly similar to a sepalchral banquet with groups of mourners on either hand sculptured over the doorway on the front of a tomb at Hoiran in Lycia (Bennslorf and Niemann, vol. i. p. 33 and Pl. V.) that little doubt can be possible that this subject so treated was on one of the ends of the calls. Michaelis rightly saw that the two stones with the groups of mourners on them formed the terminations of one length of the frieze, but he was forced by the wrong dimensions to which he worked to place them on the side of the cella and to associate with them fragments unsuitable in scale and subject. Two other fragments at the Museum were it is clear always

^{*} Compare the Morahi tomb in the B.M. A very similar composition occurred on one of the Sidon errophagi.

Sims writing this I find that Falkener

says: "We find on the cells a funeral procession, amongst the figures of which is the horse of a deceased warrior."

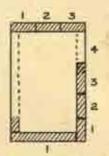
together as now (904 and 905). Fellows says they formed one stone, and in the Catalogue it is added that this stone was sawn in half for transport (p. 32). This last point seems to be a mistake, as the fragments appear to be divided by a fracture; but in any case they once formed part of one stone. This stone must have been more than 9 feet long; the termination on the right hand is lost, but at the left it has a sculptured return. The subject of the sculpture on the front is a sacrifice, a subject which would be appropriate for the entrance front.

The frieze, which is described above, of one of the flanks was made up of stones about 4 feet 8 inches long; this again suggests that the sacrifice stone, which must have been at least twice as long, did not belong to a flank. All the restorers indeed agree in putting it at one and of the cells. When we find that the altar of sacrifice, which was the centre between groups approaching from both right and left, is at a distance from the sculptured

return equal to half the width of the cella, we may accept it as proved that the Sacrifice was in fact at one end of the Cella.

We have some check on the general arrangements from possessing all the four angle stones; as shewn in the diagram they suit perfectly the disposition which has been arrived at.

One small fragment, No. 943, is of a horseman exactly like the warriors and hunters of the epistyle. As it was hardly possible for a galloping horseman to have belonged to the subjects described—a feast, a sacrifice, a sepulchral banquet—we must assign it to the fourth side. Now on the right-hand return of the subject of the sepulchral



Pio. 3.—Plan ov Phiere.

banquet and mourners, there is sculptured a flying Victory, which would find its place at the left-hand of the second long side. The conclusion is obvious that the sculpture here represented a battle, and the whole evidence shows that the frieze of the cella was disposed thus—

- A Funeral sacrifics at the entrance end of the cella (904, 905).
- B. Sepulchral bunquet and mourners at the opposite end (901, 903, 906).
- C. Seene of feasting on one of the long sides (898, 899, 900, &c.).
- D. Battle scene on second long side (943, &c., and Victory).

A fragment of a feast or sepulchral banquet (902) has been associated with the more perfect sepulchral banquet (903). It does not, however, conform so perfectly to the type of the banquet of the dead, and it could not have found a place in the same length of frieze if the scheme set out is correct. It is difficult to understand what meaning the two reliefs together could have had unless the tomb was erected for two men. It is on a stone only 1 foot 10 inches long, with a joint at each end, and it seems impossible that such a stone could be interposed in one of the end friezes. This relief, No. 902, may have been the 'master of the feast' on the long side of the cella, or there may have been additional frieze sculpture within the antae of

the east front. That this was so, indeed is made highly probable by the evidence of the anta stone. This shews that the wall moulding under the frieze was in fact continued inside the antas. The stone, 907, with musicians, perhaps, also belonged to this situation (cf. Benndorf, Heroon, p. 234). Fragment 906, having figures with paterac may also have been inside the antas, this position might best account for its having been left unfinished. One of these is obviously not of a depth suitable to have formed part of the frieze around the cella. Michaelis, starting with Falkener's wrong dimensions, was forced into many difficulties, or even, as I think, impossibilities. He puts the two groups of mourners on one of the long sides, but with work of very different scale and character interposed between the two groups: He puts the sepulchral banquet, 903, and the other somewhat similar stone, 902, together as forming the subject at one end, and the Victory approaches this double sepulchral banquet. He found no place for the warrior fragment (943).

His drawings were evidently made before the stones were embedded as at present, and therefore they have some value.

One of the recess was made up, as we have seen, I three separate stones. This seems to suggest that it was placed at the end opposite the entrance, and that this end was not recessed between antae. The stone of the Sacrifice may have been long enough to pass from one angle to where, above the opposite anta, it was overlapped by the end of the frieze of one of the long sides; or it may have been supported by intermediate columns as suggested by Falkener. It is a great pity that the stones have been so tampered with that much of the evidence is destroyed. When they were found it must have been easy to see which had wide soffits and fairly wrought backs, and thus must have been beams, and which, on the contrary, had been attached to a wall. The backs of the thicker stones seem to have been sawn off, and the end joints are now for the most part hidden. Further, there seem to be cramp holes in the top surfaces of the stones which have been filled up, and these are difficult to explain.

After writing this I went to examine the fragments once again. It is probable that the cramp holes are modern, they are carefully stopped up and they seem to occur near the ends of the existing pieces which may have been cramped to the walls before they were rearranged about 20 years ago." I have now no doubt that the long block (904, 905) was indeed part of the beam which rested on the antae. It differs from all the other pieces in having a deep fillet under the sculpture which goes down to the level of the soffit, and that soffit, so far as it can be felt, is polished as no other bottom edge is. One other short length has a deep fillet which, however, does not go down to the soffit. This is the return of the piece which, as we saw, must have overlapped the end frieze of which the long block formed part. That this fillet did not range accurately at the height of the rest would not

^{*} Mr. Arthur Smith kindly informs me that these gramp holes are modern.

matter, as it was hidden by the projection of the anta cap. The figure sculptured on this return, which would have been the right hand termination of the Sacrifice group, carries a rod or torch.

The Order.—This has been well restored at the Museum. The plinth block under the base must be put there merely to protect it; the bases really rested directly on the upper surface of the moulded course which surmounts the podium. The columns are monolithic, their diameter 14:3 inches. Falkener, who measured them carefully with Penrose, says that they had an entasis of one-sixth of an inch. It appears from the restored pediment that the total projection of the cornice beyond the epistyle must have been fully 2 feet. Hawkins says 'two different sizes of corona were found, one projecting 10) inches from the bed-mould, the other 41, but on the under side of the latter marks were found which indicated the presence of [dentil] blocks'; the other corona was that of the pediment. The back of the restored epistyle is 'conjectural.' As a matter of fact the evidence is against its having been broken into fascine, for Fellows shows it plain. Falkener gives the width of the epistyle as having been 15 inches. On Fellows' model only one lion's head spout is given to a columniation; this requires gutter stones nearly 61 feet long. There must in fact have been at least two, and probably three, heads to a columniation. At such a great building as the Mausoleum the gutter stones were only 31 feet long. 'The 'tiles' of the roof are shown absurdly wide; the number of courses up the slope also seems insufficient. Fellows says he found traces of the tiles at the back of the cymatium of the pediment. The finish of the roof against the cymatium is abnormal in having a sort of coping which looks about 18 inches wide on the model. On Scharf's drawing of the substructure he shows several fragments round about; one of these appears to be the apex stone of the pediment with a piece of the 'tile' attached, that is, wrought in the same piece. This 'tile,' with a turned-up edge on the opposite side to the coping, looks about 2 feet wide. Of the bottom angle stone of the pediment on the right Fellows says it shows on its back the inclination and width of three successive tiles which were in the same piece.' One of the series of saddle pieces which covered the junctions of the capping pieces of the tiles is not quite rightly restored; it had no level bed, but was like this: A. The vertical stem was an ornamental addition, 10 which may have been completed with painted palmettes. Fragments of three antae capitals exist, or more probably of two antae proper and of an angle pilaster, for, as said, it seems unlikely that the back of the small cells was recessed between antae as was the entrance front. That there was a difference between the two fronts is suggested by the fact that one of the three 'antae' capitals was bedded differently from the other two. One of these capitals, which is practically complete, has three rosettes in front below the mouldings, two rosettes on the left-hand return, and only one on the right. Falkener decided that this capital had belonged to the

as Compare a somewhat similar detail from Bassas in the British Museum.

right-hand anta, and that the narrow return was on the outside of the cella. This may be a mistake, as a lump of stone not worked off on the upper bed seems to show that no beam can have passed in the direction of the left hand, but only to the right over the narrow return. The moddings of these capitals are three rows of Lesbian leaves on the front, and on the wider return two rows of egg and tongue and one of the Lesbian leaf-moulding. Above these was an uncarved noulding; this and the upper carved member of the capital were continued along the cella wall under the frieze, and, as said, inside the antae. It was set in as a separate piece, 41 inches deep. Fellows shows bases to the antae on his model, and he speaks of finding fragments of them. As the podium was battered the columns of the order may all have inclined inwards a little also.

At some distance within the antae was a cross wall in which there must have been a door to the cella. Fellows describes a stone of + form which he thought was one of the bond stones of the cross wall and the side wall.

Hawkins placed a door in the podium "making use for that purpose of an architeave and part of a comice which were found close at the foot of the east end of the building." We, however, have seen that there is another stone which suits better the character of a door in the podium, and Falkener

was doubtless right in making the other the door of the cella.

Falkener writes: On looking over Mr. Hawkins' notebook I find two fragments (left at Xanthus) of an architrave and cornice - - - from one of these it appears that the walls of the cells were thicker than those of the projecting walls of the antae. Falkener illustrates the two fragments; one of them gives the thickness of a wall (about 21 inches) and shows that there was a moulding on the inside. The fragment of a console in the Museum (No. 937) may from its elegance be supposed to be a part of the same (horway. On its right side is an uncarred portion where the bed-mould of the cornice ran against it. The architrave had three faces without any additional mouldings on the outer edge except along the top. The door of a tomb at Myra (Texter and Pullan) seems to have resembled that of the Nereid Monument and helps as to explain a difficulty in regard to our console. At Myra the consoles were not set close up to the outer edges of the architrave, but there was an interval of some inches which allowed some of the capping mouldings above the lintel to return at the ends. The consoles only stopped the two or three members which were beneath the corona. If we consider the outer side of our fragment of a comole we shall find a difficulty in imagining a suitable completion of its upper part. If it had been of the ordinary S form it would have had to be very tall to allow of completing the top spiral, indeed the rapid widening apwards of the external channel almost precludes the possibility of there having been any upper volute. I suppose, therefore, that this channel turned at right angles against the wall. Compare the console of the Treasury of Cnidus at Delphi (Durm, ed. 1910, p. 293). which has much in common with ours. The back of our console does not seem to have had any bond into the wall; it must either have been pinned on, or there was a tenon-like projection at the upper end. It may be recalled

that the restored consoles of the north door of the Erechtheum were only pinned to the wall, and from the records of that building there seem to have been similar 'ears' in other places where they have disappeared. These curious features appear to have been an expedient to stop the ends of cornices above doorways. A fairly accurate restoration of this doorway could be made.

The lacunaria of the pteron has been accurately illustrated by Falkener,.

Fellows told him that slabs having these coffers in a row had been found, and
Falkener was doubtless right in putting these at the ends of the cella, which
were thus brought into line with columniations of the peristyle.

We saw that the stones of the cella frieze suggested a flink length of about 20 feet. Ten lacunar stones, each 1 foot 111 inches wide, give 10 feet 7 inches, and 5 inches added for an extra margin would make the total exactly 20 feet. Again, Falkener makes the length 18 feet 111 inches, and we have seen that these dimensions of his were too little by about a foot.

One of the stones of the doorway showed a wrought inner face with a capping moulding, so that it is certain that the cella was architecturally finished. Some fragments of what seem to have been portrait statues (940-942) may have stood here. All this throws some reflected light on the Mausoleum at Halicarnassus.

The First and Third Friezes.—Having obtained the sizes of the monument I returned to the first or broad frieze of the podium which, as we saw, would have to be about 22 feet long if it followed the 'great course' at once. Assuming that the more important sides of the corner blocks were at the ends of the monument, as was the case with the second frieze, and, as set up in the Museum, there can be no doubt that 850 and 854 balanced one another at the two extremities of one of the ends; the other angle-piece (860) is of another type.

These angle blocks together with three intermediate blocks as actually set up in the British Museum, give a length of 22 feet 1 inch, which is just exactly the length we saw was required. It is practically certain that this was the scheme of arrangement, but it seems to me that two incongruous blocks 851 (4 feet 9 inches) and 853 (3 feet 101 inches) have been used; the latter is much too small to balance the former. I would substitute 863 (4 feet 23 inches) and 856 (broken, but it seems to correspond to it); the length required for this would be about 4 feet 5 inches, the average size.

Blocks 860, 861, 862 all appear to have been in one composition, and as one of them is the long side of an angle block, they must also have been at one end of the monument; they average about 4 feet 7 inches, and require two blocks averaging 4 feet 2 inches to make up the length. This

¹² Middleton studied a stune of an enriched architexes now known to have formed part of one of the eastern windows of the Errebthoune (J.H.S. Supp. Paper 2, 1900). He described it as "end of lintel block of architexee."

with a sinking and two pins to its a commit."
What he meant by a sinking does not appear
on his drawing, but the pin-holes were evidently
for fixing a console.

much, I believe, is certain—the two ends of the broad frieze were each made up of five blocks, averaging 4 feet 5 inches, and collectively about 22 feet 1 inch.

It is difficult to obtain any clear information as to the length of the epistyle blocks on which the third 'frieze' was sculptured. In the British Museum restoration of the end the columns are placed 6 feet 91 inches from centre to centre, and this result obtained by working down from the accurately reconstructed pediment must be nearly right. Falkener gives the size of three blocks as 6 feet 2 inches, 6 feet 21 inches, and 6 feet 51 inches, but he allows that all these dimensions are probably about 2 inches too short, and this would give two of about 6 feet 4 inches and one of about 6 feet 71 inches. One which is now most certain (886) is 6 feet 4 inches. and we saw that the flank columniations were about this dimension. The best point of departure for the arrangement of this 'frieze' is the hunting composition, which occupies three blocks. One of these (889) is as much as 7 feet 5 inches long; it is maile up of two pieces, but they seem to be accurately but together, this is just the length the two blocks at the ends which overlapped the angles must have been. Another of the hunt blocks (887) is about 6 feet 8 inches and the third (888) is now about 7 feet, made up of two pieces. These three blocks, collectively 21 feet 1 inch long, can only have occupied one of the ends, which as we have seen was about 21 feet 7 inches long. To make up this length exactly, all we have to do is to make the 7 feet piece pair with the 7 feet 5 inch one, and add an inch to the 6 feet 8 inch block. These three blocks are each occupied by a separate episode: hunting the hear, the boar, the wild horse. Of a battle composition there are at least parts of four blocks remaining. No. 890, as now restored out of three or four pieces, is 8 feet 8 inches long, an impossible dimension for either front or flank. The one of these stones the length of which is most sure (894) is about 0 feet 41 inches long. Four or five blocks. one of which was such a length can only have occupied one of the flanks which had five columniations of about 6 feet 41 inches.

We now have six blocks left which are occupied with the groups of a funeral assembly and with servants bringing offerings or meats for the banquet. One of these blocks (886) has a length of 6 feet 4 inches. With other blocks which correspond to it in style, this must have occupied a flank position. Another block (897) is restored as 6 feet 8 inches long, and this must represent the second end of the structure.

Nervid Statues and Lions.—Fourteen or fifteen figures of Nervids seem to be represented by the existing statues and fragments. Five or more were somewhat smaller than the others. As sculpture several of the figures are distinctly poor, indeed 918 and 919 are almost repulsive. The design of these Nervids hovering with their feet supported on a bird or other creature has more in common with the Victory of Paeonins than with any other known work.

Fellows' scheme of restoration only required ten of these figures in the

intercolumniations and he used four others as acroteria, an arrangement followed at the British Museum. As the monument has sixteen intercolumniations, it is much more reasonable to suppose that all the Nereids occupied these spaces. Watkiss Lloyd argued against Fellows' scheme as a matter of taste and he conjecturally put Griffons as acroteria at the four angles. Now when we find that there is actually existing a part of a Griffon or Sphinx in the usual attitude for an acroterion ("944. Hind-quarters of a winged sphinx, scated") we may accept it as proved that all the Nereids were placed around the pteron and that four sphinxes served as angle aeroteria. Sphinxes and lions are frequently found as tomb guardians in other Xanthian sculptures, and four served as acroteria on one of the Sidon sarcophagi. Fragments of four lions belonging to the Nereid monument were found by Fellows: these are best disposed as by Lloyd.

Dating.-Many obvious derivations in the sculpture and architectural details from the Parthenon and the Erechtheum have been pointed out. The relations with Trysa and other Lycian works which seem to be of the fourth century are still closer. A motive of a goat being dragged along to the sacrifice which occurs twice on our monument appears also in an important form at Ephesus, and the ordinary probability would be that the lesser derived from the greater. Some of the incidents of the hunting friezethe ramping bear for instance-are found also on the Sidon sarcophagus of the mourning women (c. 350) and, the pedimental composition of the battle scene is so remarkably like the pedimental group of the Alexander sarcophagus (c. 320) that there must be some direct relation between them. A soldier at the left-hand end of a slab of the wide frieze, who turns to shoot an arrow, closely resembles a similar figure on the same sarcophagus. The sculptures of the narrow podium frieze are very pictorial with clever perspective effects; they belong to a school of sculpture which was consciously imitating painting.13 The subject of the seated Satrap should be compared with a relief on the tomb of Merehi.

Notwithstanding a kind of superstition for dating this monument too early, it cannot be believed that such sculpture was wrought before the second half of the fourth century was well advanced. Some of the architectural details, as notably the poor mouldings of the pediment, point to the same conclusion.

In a copy of Watkiss Lloyd's Xanthian Marbles in the Library of the Hellenic Society is inserted a MS, letter from the author to Dr. Sharpe written in 1846, in which Lloyd says—'How could Sir Charles relish your sacrilegious attempt to bring down the date of this monument to the age of Alexander? I suspect as little as he is likely to be in love with the general purport of my own speculations. I freely admit that looking only to the terms of the inscription, a especially with your construction of it, and even when we take

[#] See P. Girard, La Peinture Antique,

to In a recent British Museum publication

it is assigned to early in the fourth century.

4 Of the inscribed stells, I suppose.

into consideration the lower frieze of the monument, the temptation is very great to ascribe the whole a triumphal intention and to regard it as a trophy tomb of the Carian Allies of Persia.

Dr. Sharpe, it appears, saw 'Carian influences in the building, and thought that the monument was built after the time of Alexander 'when doubtless the Carians gained ground in Lycia.' Newton, in the article before referred to, expressed the view that the Mausoleum was the prototype of our monument which was 'probably of a period subsequent to the time of Artemisia.' Fellows himself said, 'the peculiar form of its massive pedestal surmounted by a temple-like structure [is] similar to those which I have only seen in Caria in the ancient cities of Alinda, Alabanda and Mylesa.'

I have the hope that some time it may be found desirable to put the frieze slabs in their proper order; then I trust the further step will be taken of re-erecting one of the fronts, at least, in its complete form; indeed the possibility of setting up the whole monument should be carefully

considered in

NOTE ON THE DIMENSIONS.

As has been shown of the temple at Priene and other Greek buildings. we may expect that the chief dimensions of our monument were set out in multiplies of the Greek foot, which was equal to 11 6417 English inches. The size given for the substructure agrees almost exactly with 23 by 34 Greek feet, and the dimension of the columniation of the front agrees very nearly with 7 Greek feet. The width of the front from angle column to angle column (centres) would thus have been about 21 by 32 Greek feet, being two feet within the substructure in each direction. The columniations of the flanks were four or five inches less than those of the fronts and the total dimension of the flanks gives 6# Greek feet from column to column. The measure along the outside of the frieze of the order would have been 221 by 331 Greek feet; that is very nearly as 2 is to 3 at this significant part, Possibly 7 Greek feet for the columniation is a little excessive, and we should take the dimensions 22×33 as the fundamental measure, but if the columns were inclined the fraction disappears. [] find that Hawkins had estimated the size of the monument at the 'great course' as 33 by 22 English feet. beyond which the substructure projected II inches all round (Museum of Class. Autiqu, p. 259) and this nearly agrees with Benndorf's measurement. Fellows' scheme of restoration required him to contract the size as much as possible.

W. B. LETHABY.

admirable. Our Fig. 2 is taken from it. Collignon has excellent illustrations of some of the figures and friezes in the second volume of his History of Orcek Smileture; and representations of most of the other fragments may be found in Houseasti del Isidado.

Defeatiful drawings of the sculpture by Scharf are preserved in the British Museum. An illustration of one of the pedimental groups, from a drawing of his which seems to have disappeared, is given in an article by different the Museum of Classical Archeology. Falloum's representation of the second frieze is

ANTHROPOMETRY OF GREEK STATUES.

[PLATES VIL-IX:]

Note.—The illustrations which I have given are not to be regarded as finished drawings, but rather as the best results that could be obtained from the records of my working note-books, and of measurings made in the midst of the statues. The whole purpose is to calenit a practicable curfoot.

L-The Doctrine of the Canon.

It is strange that it should be believed by many artists and critics of art that no doctrine of human proportions was known in the schools of the great masters. For the contrary would seem to be the true case, if we are to judge by the practice and the comments of the artists and their friends. Egyptian; and early Greek, and indeed all symbolic art is obviously based on measured proportions. The remark of Diodorus (I. 98) about the twentyone parts by which the body was measured in Egyptian sculpture may not be enough for a theory of an Egyptian canon, but it agrees well enough with the plainly systematic treatment of the sitting and the standing figures. It is more difficult to believe that the Egyptian sculptor had not a set of ratios which he used in his work. The same may be said of the archaic Greek statuary; and when we come to the classical work, we cannot think that the doctrine το γάρ εν παρά μικρον διά πολλών άριθμών was held alone by the followers of Polykleites the Argive. Classical art develops so demonstrably on inherited doctrine of various kinds that it is hard to believe that there was no regard to proportions composed of numerical ratios as part of it. At the end of the Hellenic age such allusions as that of

Yes a front view of the body as divided by the Egyptians into 19 parts (Diodorus, i. 98, seems to have been including the height of the head-dress when he says 21) see Lepsius's Man, femeration de "Egypte", and up his Describe PEocyce, iv. Ixii. 1 and Wilkinson's Host of Europe, p. 113, PL IV. Galihart gives this polarence.

S. B. (presumably Dr. Samuel Birch) in

m note to J. G. Wilkinson's The Ameical Egyptanes (vol. ii. ch. x. n. 3) says that there were three canons: one as early as the Third Dynasty, the escend from the Parelith Dynasty to the Twenty-second, and the third subsequently. Diodorus refers, I think, to the third. 2 Phile Mach. 17. 2. A writer of second century n.c.

Vitruvius (i. 2) to the measured basis of symmetry in art are quite in accord with what we know of the Greek practice: in hominis corpore e cubito pede palmo digito * ceterisque particulis symmetros est curythmiae qualitus. The supposition that first Polykleitos, and then Vitruvius, and then Leonardo da Vinci were trying to establish a doctrine and practice of calculation in statuary and architecture is, I believe, simply due to oversight, and perhaps not a little to the prejudice * which the enormous impulse expressing itself in later remantic art (especially since the championship of Goethe) has created in favour of the free work of genius untrammelled by any doctrine whatever.

The gist of the doctrine of Greek art, so far as it found words for literary comment (for plastic art is tacitum on this side), is to be found in the three summarising words åvaλογία, συμμετρία, εὐρυθμία. The two last name the greater qualities which literature has made famous, the symmetry being that technical regard for the placing of parts to the best advantage, and the curythmia the nameless grant to which language has striven in vain to give expressive names, that clusive tertium quid without which we may have skilled work of artisans and works of taste, and even of distinguished talent, but no true work of art. All this the cultured world has learned at Plato's feet; but the other term analogia, translated into Latin by proportio, that which has regard to the ratio parts, the measured ratio of part to part, in detail, has naturally been less interesting to the layman, and has been overlooked. But behind the scenes the artist being also artisan has had much to do with it, and occasionally a Leonardo or a Dürer has reminded the world of its permanent importance.

To Leonardo da Vinci (1452-1519) we owe perhaps most the preservation of faith in the doctrine of avalogía or numerical proportion of parts.

* Vitrue, i. 2, p. 12. Proportio quae gracce demacyla dicitur. III. i. p. 65. Elsewhere wa dedacyne.

These were terms familiar in the metrological systems as ordinary names of measured lengths, and usually had fixed values. See e.g. Michaelie on the Oxford metrological pelief, J. H. S. Iv.

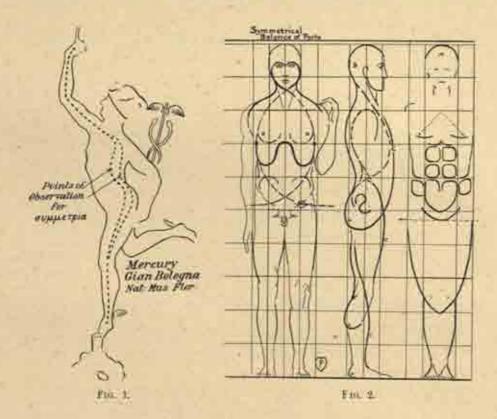
[&]quot;Le prijuge qui existe contre tout en qui resemble a des moyens de précision."—Eugène Guillaume in a Notice on the Doryphoros in Rayet's Mon. de l'ort Antique, Paris, 1880. The article is most admirable. "L'originalité peut se retrouver jusque dans le résultat d'un calcul." Prof. Percy Gardiner called my attention to it.

[&]quot;L. Urriche refers to many writers who so use it in Green's Remote krifteteller, Bock VII. [Intro.] and Philostrat. Jun. Imag. Process: 3 δοκοῦτι δέ μαι παλαικί το καὶ σοφοί ἐνδρες πολλά ἀκὸρ συρμετρίας τὰς ἐν γραφορή γράψαι κ.τ.λ. As an example of συμμετρία which is conential if not deliberate I give in Fig. 1 a marking of Ginn Hologous - Mercury, at Florence. The sculpter has disposed the arms and legs so as

to give the rhythm of the lines of an unarrang how (see dotted line). The same constal symmetry of parts to to be observed in the leady also in its rigid attitudes. I have nurked some on the figures in front and proble in Fig. 2. The reader will note the rhythmic effect not only of the lines but also of the masses. E.g. of the rump, the call and the heat (A, a and a); and again of C, c and c, in the profile, se well as the correspondence of parts about the axis shown in the geometric outlines (in front view) produced by shoulders, ribs, abdominal massles, etc.

^{*} Vitravius defines it so, i. 2, iti. 1; oplanian, Pro Imag. 15; Clem. Alex. Pool. iii. It and 64 (elpotaur and analy decemb.); Kunoph. Memor. iii. 10, 9; Plut. & educut. puer. 11; Diod. ii. 56, 4, and i. 97, 6 (decahr deconderur. ii. general bearing, pool. puice).

He saw that Vitruvius' few lines concealed more than they revealed of the ancient rule, and noted that his Pes vero altitudinis corporis sextae (partis), cubitum quartae, pectus quartae, etc., was only an example of ratios. Leonardo's lament 'Defuit una mihi symmetria prisca' (written by his epitaphist, but quite characteristic of his own modest bearing) is partly regret at not fully appreciating what he knew instinctively to be the principle of complete harmony (or, as Bossi calls it, la commodulazione in respect to le tre proporzioni che gli antichi distinguevano, la numerica, l'armonica e la geometrica) in the incomparable Greek work; and partly matter of fact indication of failure to find any more of the discoveries of the Greek masters than



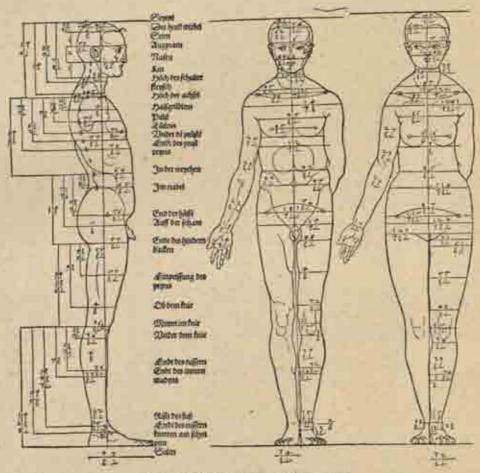
Vitruvius and an odd literary note or two had indicated. He was convinced, however, that the Greek schools had a full doctrine of ratios, if only it could be unearthed!

More practical than Da Vinci's indication of the canon is Dürer's contemporary achievement. The accompanying scheme of detailed measure-

¹ The whole sections is worth spotting (Storio delle Arti): 'Per quoeta arionea egil (sc. Leonardo) non intendeva una determinata misura generale dell' umm ens quella commentolazione il parti che a cisschedun individuo conviene'

⁻that is a relative, not an absolute standard. Bessi has a chapter, 'Opinioni di Leonardo intorno alle proporzioni del corpo umano,' with a plate giving Leonardo's norm, in his De Cemecolo, 1810.

ments is his own, Fig. 3 below being taken from the British Museum copy (Print Room case 36 a. 5) of his View Bücher, 1528. The system of notation has a formidable appearance, but it is easily explained, and in practice easily reduced to percentage values. Thus the heights marked for the lower leg in profile against the vertical lines are 168, 150, 143, 70, 624 and 17 respectively; and these I would read as \$55, \$55, \$45, \$55, and so on. They come out as 28%, 25%, 24% nearly, 11-3 nearly, 10-3 nearly, and 3% nearly of the



Vm. 3. - Dinam's Schull or Proporties.

height of the body, and may be compared directly with the percentage scheme which I have shown in Plats VII. ('Geometric Man').

To examine one or two parts in detail: his head is in height with its.

13 %, making the stature to be 7\frac{1}{4} heads nearly; his foot is in length side, which is 15\frac{1}{4}\%, a foot rather smaller than the one-sixth foot which Vitravius gives as the ancient norm; the breadth of chest between the nipples is also or 11 % nearly, a narrow chest; shoulders 14% or 23.3 %; hips \(\frac{1}{4}\frac{1}{4}\), if its

18%; while the measurement between the iliac spines shown by the curved

line is given as and or 13 % approx.8

Anton Raphael Mengs (1728-79), whom I select for the interest of his suppressed chapter on Proportions, was fully convinced that the Greeks worked by sure rules: In quelle figure trovarsi una proporzione impossibile a conoscersi e a praticarsi senza un' arte che dia regole sicure. Queste regole non potevano fondarsi in altro che nella proporzione.' The head according to his canon is shown in Fig. 17. This Flaxman, though less positive about the sure rules, also maintains (to quote him at second hand from Walker): 'It must not be supposed that those simple geometrical forms of body and limbs in the divinities and heroes of antiquity depended upon blind and ignorant arbitration. They are, on the centrary, a consequence of the strict and extensive examination of nature, of rational inquiry, etc., etc. While he, like Michelangelo, feared the dominance of the merely mechanical, he saw with Polykleitos and Pythagoras that nature must have observable proportions, and that 'Le sentiment y trouvait son exercice et son frein, et l'imagination sa sureté' (Eugène Guillaume)

These are only a few of the great artists of all ages who have preached the doctrino of the Canon; many using schemes of proportion in their own work. Those who have seemed to deny the doctrine have, I am sure, for the most part, been misunderstood. While they deny the control of fixed rules mechanically applied and demand for themselves the utmost freedom in infinite variety of detail, the great artists obey rules of proportion nevertheless, and are even distinguished by the ratios which they prefer. As Kalkmann has shown in his Proportionen des Gesichts there are as a matter of fact sets of ratios in the successive schools. These are virtually camons whether they were ever formulated or not. If a sculptor in Greece could go straight to work upon his marble block in the production of a well-known type, he must have had an absolute mastery of the geometrical relations of the parts. 'The very freedom of Greek sculpture is to a great extent due to its close adherence to tradition.' (E. A. Gardner, Intro. to Size Greek Sculptors.) And tradition in the Greek practice is actually

used. The case of Menga is remarkable; his Italian, German, and English editors (see Bibliography) omitted his exposition of his scheme, with an apology for their own obtaneous.

The symbols used for denominators, placed semations under and semations beside the numerators, are ¶_i a 'lime' or rule, | or \$45 or height; ξ, a 'Zall,' γ, of the 'line' or χλ', of height; ⊥, a 'Tail,' γ, of a 'Zall or χλη of height. Thus $\frac{14}{15}$ =181 and $\frac{1}{4}$, $\frac{1}{4}$ =18/¶± *

^{(4),} while $\frac{14}{U_{\perp}} = 4A_{\parallel}$. The interpretation is my own. Note that in the German lettering psyn=psin=Bein.

ha I suspect many others of deliberately concealing their use of measurement. Direct complains that Jacopo de Barbari refused to give him the servet of the achiene of proportions be

[&]quot;For example, I think Minhelangelo is misunderstood when he says the le proportioni min radous sotto abunta misuca di quantità (according to Vincentio Dunti) and chi non he le sote negli occhi non (movem smi artifizio.' He is rightly denying any absolute set of measurements for the human frame, and any mechanically luming rule.

¹⁶ See defea my attempt to plot out Kalkmann's sumbers graphically.

expressed in ratios reducible to a scheme. This, at least, it is in part my

object ultimately to show.

The masters in art were often guided by immediate insight without conscious calculation. Lesser men may nevertheless profitably observe their practice in its calculable results. And observers have been many, as the Bibliography (infra) suggests. These observers unfortunately employed different indulions in recording their discoveries; also they often attempted to give absolute instead of proportional measurements, and to find the universal norm instead of the type; and they did not always describe relations that were genuinely anatomical. To these defects is due the oblivion which has fallen upon them (Dürer's brilliant and useful work is a notable example), and these defects might, I think, be remedied by the use of the scheme of geometric and numerical notation which these pages have been written to expound.

Before explaining my scheme, I should like to mention one notable

suggestion, and to glance at the position of modern anthropometry.

II.—The Theory of the Inscribed Figures of a Circle.

Jay Hambidge and W. W. Story have striven to prove, one for Greek architecture and the other for the human figure, that the units of measurement are to be found in the sides of the regular figures which can be inscribed in the circle. Story has used also units other than the sides, and by applying them chiefly for vertical heights and horizontal widths in his system to the construction of a new canon he produces a normal figure of great beauty and persuasiveness. Mr. Hambidge, having to deal with architecture, lays stress on the elements of the Greek curves, and temarking wherever precision and subtlety of curvature combined with refinement of symmetry occur in classical musterpieces of formal art, there is a most complete agreement with the proportions to be found in the regular forms of nature, applies the lengths of sides of the inscribed figures to 'deriving' secondary circles to 'determine the disposition of the elements of symmetrical and proportional form.'

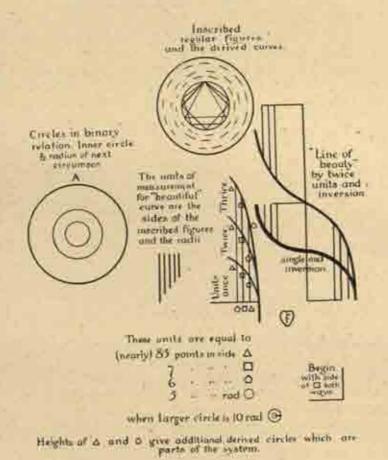
I have plotted out, in a more particular application of my own, some of the resulting curves on paper ruled in documnl squares, with results very closely in accord with other observations taken in quite a different aspect. These results I must defer to a later paper. I should like, however, to submit the following examples of some curves resulting from the use of the inscribed figures. They occur in great wealth in the outlines of the human body, of which I have worked out many applications.

¹¹ The former in a paper, "The Natural Basis of Form in Greck Art," read before the Hellente Society in Navember, 1902; the latter in his "Proportions of the Human Figure," 1864.

¹⁰ E. q., not only the side but also the height of the inscribed figure.

¹¹ Mr. A. T. Porter has shown me a method by which the length of the ables can be determined by the simple use of ruler and compasses, i.e., by purely geometric method, without me of protractors or reference to angles. Mr. G. H. J. Adlam has shown me another method.

A system of n circles in binary relation (diameters as 1:2:4:8 etc.: A in Fig. 4) produces 3n magnitudes, the lengths of the sides of the inscribed figures (see uppermost figure). It gives 6n magnitudes if the heights of the inscribed figures are also taken in; to these the lengths of radii may be added. One set of these is indicated by the group of five vertical lines in the middle of Fig. 4. These may be arranged, as in the set marked n n n to plot curves. By combining such sets as in right-hand diagram, we get new



magnitudes and corresponding sets of curves. My suggestion is merely that such a system would be perfectly accurate and infinitely applicable, and yet would vary automatically with the change of any one magnitude.

Fra. 4.

We may have, in this suggestion of a geometric system, half the solution of the ancient Canon problem. It came to this: Could the Greek sculptors, who worked so closely to type and proportion that we have the antique Attic, the Polykleitan, the Lysippean, the Praxitelean statuary, distinguishable by proportion of parts.14 have possibly attempted to apply the foot-unit or the palm-unit or the finger-nail is unit, standardised or not, to work so delicate and small as the details of the Cassel Apollo, the Doryphoros and Diadumenos, the Hermes, the Praying Boy, the Youth by Stephanos, or the Aphrodite of Cnidus? And if they worked by a standard now lost of more exact magnitudes, how did they endure the labour of converting by fractional reduction the standard tables for the particular statue on which they were working-for hardly two statues are of the same absolute height 10-by any method which was known to them ! That is the problem, and its solution has been awaiting an appreciation of the use of a group of geometric ratios which would be constant so long as any one of them remained unchanged. ie through the continuance of a piece of work. I say appreciation because there is no novelty, I suppose, in the fact that the regular inscribed figures are capable of the treatment suggested above : the difficulty has been lack of proof that the Greeks used those in particular, and of any urgent reason why they should,

Why could they not, for instance, have said something similar to our universal per cent.? The answer is, I think, clear. Because it is of no use to say per cent about a ratio unless you have instruments of precision to which enable you to find immediately and easily the measurement which that makes on any given line. If we say that the upper arm-bone is I_{nn}^{*} of the height of the body, the lower arm I_{nn}^{*} , the shin-bone I_{nn}^{*} , and so on, these are only now useful observations when we have section scales and proportional compasses and paper ruled in millimetres. The construction of a finely divided scale computed for each new status would surely have been intolerably laborious. It seems obvious to us to say Measure off 20 millimetres; but the reproduction of perfect millimetre scales is a benefaction of modern industry which was unknown in Greece.

Now that squared paper is well ruled and millimetre " scales reliable, so that one may have for every record of a human figure as large as this page 2,000 and more squares on which to mark a norm and record divergencies we shall not need for the work-room the inscribed figures of a circle; but the geometric figure was almost the only instrument of precision of equal applicability which the Greek artist could use or make. He could say with assurance, 'When the upper arm (humerus) is as long as the side of the

Engineers' and architects' comparati-

This may be taken as beyond dispute There are recognised differences in these types, not only of artists value but also of arithmetical. See Kalkmann, he so, on the measurable change in proportions of the face. And everybody allithm to ratios to order to distinguish, s.p., the Apolle of Tensa or the Doryphores from the Hermon.

Pindar, Ot. viii. 158, speaks of engile receipes farribus siers.

Two thousand millimetres is an average movement for the neight of the herote figures.

but the Oxford a trological relief figure has outspread arms which extend 2057 name, the 57 being just enough to came intolerable trouble be the measuring—too little to 'count,' but toseach to ignore.

We use paper sufed in hundredths because of the convenience of decimal records in Europe. But we may remark that the decimal system is not intrinsically the best.

inscribed triangle, the lower (with the wrist) is as long as the side of the square, and always have a ratio both useful and precise. And if it was such a ratio he used, it was the ratio of natural geometry.

III.—Method of Modern Anthropometry,

The indications of the ratios of the ancient canons numerous as they are, are still too fragmentary to enable us to reconstruct the canons themselves, and so to show deductively their application to ancient statuary. The modern method is inductive: it proceeds by examination of the statues to establish the system of the existing proportions. In this it has been much assisted by modern anthropometry in general, which as a branch of scientific anthropology is proceeding by the same inductive method, and has already made considerable progress in mapping out the ground to be surveyed, as the records of topographical anatomy, biometric investigation, and tabulations of racial differences. The fairly show.

Both for measurement of statuary and the measurement of living bodies

we have until recently lacked instruments.

For the measuration of so living a piece of nature as the body, observation and collation were demanded on a scale to which its recording and comparing apparatus of the mediacval world was not equal; a century of modern anatomy and a half-century of reliable graphic records have only recently furnished us copiously with facts for this branch of biometric. The labours of many pioneers have at last summarised some of the first available results, and the museums, treatises on anatomy, and records of the proceedings of special societies furnish thousands of models, casts, drawings and photographs really trustworthy for reference and collation. The makings of an apparatus criticus for the measuration of statuary are at last in our hands.

For example, A. Kalkmann, in 1893, published a monograph (above mentioned) on the proportions of the parts of the face in Greek statuary which, in addition to the thousands of measurements which he himself had made gives many of the observations of masters and writers of the Classical Age, of commentators in the Middle Age, and of exponents in our times.

The extreme care given to the smallest dimensions and the lucid systematic arrangement of the tables of comparison which Kalkmann's monograph shows, mark an epoch in the scientific treatment of the subject. All that remains to be done is the reduction of all these absolute millimetre measurements to some common scale or scheme—a large task! Meanwhile we have the millimetres, which is much.

Professor Kuri Pearson has won much grantude for Nonestrian. At least exteen years ago I was additing him in making records of physical characters of school children and students. See Proc. Rep. Soc., vol. 69, p. 232 (1902).

Professor W. M. Finniera Petrio has contributed numb material (*. *) , 'Early Egyptien Skeletone' (measurements) and 'A Systematic Study of Java,' being shapters iv, and vi. of Turthun, i., Brit. Sci. Arch. Egypt, 1912.

¹⁰ See the Proceedings of the Anthropological Societies of Peris, London, Berlin, etc.

Almost at the same time, in 1895, the publication of Professor G, Fritsch's monograph Die Gestalt des Menschen, confirming the observations of C. Schmidt in 1849 and of C. Carus in 1874, gave a stimulus and a method, which had before been lacking, to the general observation of human proportions in modern races and for the practical uses of art.

Finally the recent formation of a Committee of the British Association (referred to below) to guide Anthropometric Investigation has raised the study to the position of an acknowledged science; and the Congres International d'Anthropologie (Geneva) in 1912 formulated an International

Agreement for the unification of Anthropometric Measurements.

In publications on anatomy for the instruction of medical and especially surgical students, much exact work has been done which the graphic reproductions make available in such work as Mr. L. Bathe Rawling's Landmarks, with its system of median and lateral planes, and the plastic in such modelling as that exhibited in the cases in the Museums at the London Hospital and Guy's and other Schools of Medicine.

In all these geometric arrangement and the measurement of angles and distances play large parts. Many of them are accepted by modern surgery

for guidance in operative practice."

My conclusion is this. It is becoming increasingly possible and desirable to have a formal quantitative knowledge of the proportions of plastic works of art (a scientific andriantometry), expressed in positive symbols of ratio and represented graphically by a diagrammatic method, which shall be independent of perspective and all the artistic devices by which the eye is satisfied and deceived.

It is not at first eight obvious that one cannot see the width of a fullsized human limb, except, theoretically, at infinity. Let E in Fig. 5 represent the eye of an observer of a cylindrical object, cubm. Then it is impossible at the same time that a ray of light from point a, the last point visible at the tangent on one side, and also a ray from m_i its diametrical opposite point, should both reach the eye. The last visible point, b, on

¹⁹ In the Ferhandl, der Berliner Anthrop. Genellschaft.

^{*} Propertions klinest.

[&]quot; Tris Proportionalches des mound, (Festalt,

The a method of seaf-weaf values, graphic, taking the vertebral column for its modulus and using the principal articulations of the skeletes for its measuration edicate. It is, for a general estimate of a figure, excellent it have made much use of it for first observations; and have found its immensive value high for the practical student of elementary artistic sustainty. Its diffects are (1) belt of precision of points. (2) use of extremities of vertebral

column as standard points, (3) me of the deeply hidden lead of fourne as a standard point, (4) applicability to the excet figure for full front view only. The amployment of Frit ch's sames for comparative measurements I have shown in Fig. 11. The measurements are mine.

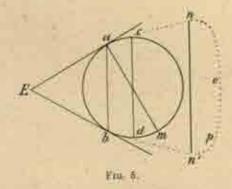
A single arample of practical judgments tensel on a gunmetric marking on the body may be quoted; Minimalis believes that the more perfect the rhombus which he indicated on the author in the lumbur region, the better the conformation of the poivie for normal purturities.

the side opposite to Ee, is marrer to the observer than m, and ab, the apparent width of the cylinder, is smaller than am, the true width. The observing eye at E never sees the maximum width, cd, at all, though binocular

vision helps the observer to see a little more.

The superiority of the observed fact on which modern realism in artistic work and judgment insists makes it the more necessary that we should also know the true distances, the often less pleasing facts. For the problems of artistic judgment are in many cases insolable through want of just that knowledge. This is accepted in the methods of all those students of anthropometry who reject all focal measurement by converging rays of light (such as photography gives, and the rule-of-thumb measurement of the drawing school), and who by the use of calipers and sliding-beam compasses "take the diametric size of limbs and other parts.

But here a difficulty occurs of considerable practical importance: the record nucle by the calipers will be, of course, the distance of in Fig. 5 (or even, in figures of shape anopb, the larger distance, nn'), while the eye will have been used to seeing it as ab, in other words, the most accurate record



of true observations, such as Story's or Kalkmann's, if made on a plane surface by delineation, must necessarily look wrong. Seen from a point usually above or usually below the level of the eye, parts will have a remembered dimension which will be contradicted by the graphic record in true magnitudes. If, now, in order to please the eye, to correct the perspective in unusual positions (e.g., as of a statue on a pedestal as high as the observer), and for other artistic reasons known to the artist, the part be made a little larger or a little smaller than the normal, this will be recorded by the exact measurements as an actually distorted or even deformed figure. For this there is no help, but the practical difficulty makes against the ready acceptance of the true record; for there is not, as in the case of architecture, a simple allowance which at least may be made in a sufficient number of

⁵⁴ The Committee on Authropometric Method of the British Association, in their report of 1909, Indicate the best instruments.

⁼ This, I am convinced, the Greek masters

did in plants art as well as in architecture. This, ten, our which I wish to insist fater, is one of the most useful results of applying actual assuauroment.

cases; there is an over-recurring adjustment necessitated by the enormous number of planes, undulations, and intersections which the human figure admits. The true record of the sizes, the actual magnitude of the material medium which the artist used in order to get his effect of beauty, is on paper

often displeasing to the eye.

We shall have, perhaps, a representation inartistic, crode, even, it may be, ugly, but we shall have at least the constructive âraloyia of the figure, be proportional numerica a geometrica; and, in so far as and wherever the knowledge of proportional magnitude can go, we shall have achieved within the limits of the artist's small demands a full delineation of the anatomical facts. The judgment will no longer struggle in the maddening attempt to reconcile the varying evidence of foreshortening, optical delusion, stereoscopic effects of our double vision, artistic prejudices, and the prejudices of previous knowledge, when all we want to know is how much of space is occupied by bodies and parts out of which the artist is to make, by disposal and modification, his works of art.

In the case of architectural plans and elevations the similar difficulty has survived the prejudice, and the usefulness of the elevation has secured it a

tolerance which the human 'elevations' cannot yet expect

I am nevertheless, so fully convinced that photographs and artistic drawings of statuary are useless for purposes of exact comparison of proportions, that I believe the orthogonal record will be adopted for all reliable comparison, by those who have to pronounce judgment on statues, and whose high gifts in judgment of great works of art are often embarrassed by the ambiguity of adjectives, large, small, and the like meaning, as they are naturally used, large in approximate, small to the observer in such and such position, and the like, and the critic would be glad to be able sometimes to refer to actual dimensions in more mathematical terms.

The new Athena, for example, which is placed at Oxford side by side with the Marsyas of Myron, has certainly a siender youthful appearance, but this is what the artist gives us; actual measurement showing that the shoulders are relatively wider than the average (see Plate IX). I measured this half-a-dozen times to convince myself of this surprising fact. The Cassel Apollo again has in effect a graceful slenderness of hips, but the actual arithmetical ratio between the depth (front to back) of pelvis and length of leg is larger than the normal (see Plate VIII.). Again I have found by many observations that the Aphrodite figure is of a geometric type so similar to that of the Apollo that no marked difference is shown on my scale, and the supposed general difference in ratio of shoulders to hips does not exist. As Professor Fritsch has pointed out, the Aphrodite of Melos is larger on one side than on the other.

IV _A New Recording Instrument.

To resume. If there is a Canon of proportion implied in the best Greek statuary and if the indications of Vitravius and others are references to it then it is worth our while to try to discover it. For this we need first

a synopsis of many careful records made on one scheme.

And since it must be admitted that no extant Canon has been offered which can be accepted as undoubtedly the Greek, observers may as well fall into line with the Anthropometric Committee of the British Association, and employ modern methods of taking dimensions of the human body, in terms capable both of graphic and of numerical statement, fit to be submitted to the analyses used in general biometrics.

I have endeavoured to keep in mind, while preparing a scheme which would comprehensively satisfy these conditions, also the later application of the results to ethnographical comparison. We want to record anatomical facts which may help us to classify according to schools and mees. It was indeed a general survey of the ethnographic problem which Professor Flinders Petrie kindly gave me about five years ago which first convinced me

of the need of a new instrument for recording the facts.

I propose to be content with about 500 determinations of points in the human figure. The inbour of making 500 points of every figure examined is much reduced by the plotting of curves on paper already ruled in small squares; and is again much reduced by the guidance given by a normal figure faintly traced on the squared paper on which the plotting is being made.

By collating and digesting ancient and modern systems of proportion, by comparing together the best anatomical drawings found in works of science, and by reducing all these to that representation which is not seen in the works of art themselves, viz. the quite erect front and profile, I have produced a figure (see Plate VII.) which I used as a norm. I have been

detailed measuring of rasts and muchies at the British Mineum, at the Ashrondean, the Birmingham Art Gallery, and in some contimental and some private collections; and by measurement and abservation of the living model in studio-work and in photographic studies of the made, by means of which one's awa observations are mornionally extended; and, finally, by much note-making from monegraphs and the larger Imblications of many of which I have given the particulars in Bibliography (rates, p. 256) I have had the privilege of consulting many London painters and sculpters, and owe to mumbers of the Art Workers Guild (especially to my triend Mr. John W. Batten) thanks for a willing hearing and much

[&]quot; The investigation, occupying the leisure time of five or six years, and encouraged by a grant from the Treasury, has been remarch work in Professor Emest Gardner's department (the Yates Archanological at University College, London, with some special work in the Stade School of Art (Professor Thans's course in artistic amatonry, with valuable commet from Professors Tonks and J. Havard Thomas, also by the measury practical anatomy and observation in the disserting-room at the Loudon Hospital Madimil Callege (for which the Dean kindly offered me special facilities, and the herurers and demonstrators in anatomy many valued hints, especially Major Rutherford, E.A.M.C., Mr. Walton, and Mr. T. C. Smumers); by

encouraged by the confirmation received from many sides—especially of art and of anatomy—but I would ask lemency towards my results, inasmuch as they are to some extent still tentative, and are being offered at this stage for the purposes of reference and comparison.

This normal figure # I use reproduced as I have said, and then over it I

mark the sizes of the observed figures in thicker lines upon it.

The advantage of using a cheap faintly printed copy of the normal figure for each record is chiefly in the economy of time. All these parts of the statue under examination which are found to be 'normal' need not be marked at all; and the variation can more easily be marked upon the normal figure.

The scheme had to satisfy three requirements.

The first requirement was to obtain a definite geometric position in space for each point of the body which was to come into mensuration. This we have obtained by making coordinate planes of projection of two planes at right angles each passing through the centre of gravity of the body, and conjointly containing all the fulera, viz., the occipite-aliantoid, the lumbosacral, the hip-joint, the knee-joint, and the ankle-joint in the transverse plane, and all the points of centre of gravity of the correlating parts (e.g., the two corresponding symmetrical halves of head, thorax, pelvis, etc., the two arms, and the two legs) in the other.

The next was to mark out on each of these planes the normal position of all the important points, of which the chief are in the bony framework. These I have shown partly as curves in Geometric Man (Plate VII.), to which I find in practice all varieties, racial, sexual, and individual, can be conveniently referred.

The third requirement was to find sufficiently precise indication of ratios which would remain unchanged, or of which the changes would be easily calculable in the many positions in which the statues are disposed. This is

(Decouragement. I have also especially in thank, among surgeons, my friends W. Clowss Pritchard and Norman Bye. Mr. Basil Witner kindly propared certain of the geometric figures. Dr. Orevend, of Hastings, has knowly given me the benefit of his great knowledge of redisgraphy. Innumerable observations of detail, many well known to surgeons and auatomists, have been incorporated without comment, such as, for instance, Merkel's noom, Mikulier's line, Britishe's line, Bryan's triangle, Camper's el-Upris, Michaella' rhanch, Nelston's Rue, Gibson's triangle, and the topographic markings by L. Bathe Rawlings. Anything that could be found with sufficient confirmation in any system has been used, and I shall be grateful for other

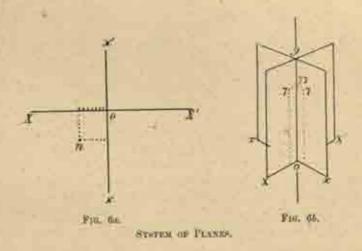
suggestions and corrections. I um siready much included to Mr. G. F. Hill.

*A copy of the full scheme in true-to-scale reproduction is obtainable from Messra, Stanley & Co., 8 Victoria Street, Westminster; but a nuch charger reproduction suitable for recording measurements is by ordinary engineers blue-print.

"For me of the same whome for the formle ligure the details are indicated, via (see Plate), the breast measured by the radius with centre as indicated, and the podends as sleyers in the margin of scheme. Other sexual differences are not prominent in Greek statusty, and hardly require a separate scheme. See note 31. satisfied by the scheme I submit (Plate VII.). Many of the actual magnitudes strongly marked out by the construction lines never vary at all, in any position, for example, between the acetabula, between the glenoid cavities, between the eyes, ears, etc., lengths of bones of arms and legs, width, height, and depth of pelvis, and of course the sizes of skull in all its parts.

The method is that of descriptive (solid) geometry, viz., reference of the position of a point by orthogonal projection upon co-ordinate planes at right angles and the measurement of the distances of two points in space by the distances made by the projecting lines upon the planes; similarly of lines and curves, by plotting them in the ordinary way of graphs upon each plane in turn.

For example. Let u in Fig. 6 $\langle a \rangle$ be the point of a nipple, and let its position be referred to the two axial planes of the body in Fig. 6 $\langle b \rangle$, XX'y



and xx^iy (the ground plan of the system showing them in Fig. 6(a) as XoX^i and xox^i). The projecting lines of a give on Xoy the coordinates (7, 72) and on the intersecting plane also (7, 72), where the 7 represents 7-hundredths of the height from sole to crown and 72 represents 72-hundredths.

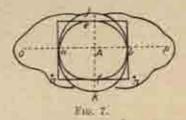
If the two planes be ruled by squared-ruling in tenths and hundredths of the total height the place of n is instantly fixed and found, and its distance from, ϵg , the point n of the other nipple is immediately seen to be 14-hundredths. Since the ordinate ϵg is the same for both planes it will be

This is important. The projecting lines co-ordinate planes. Purspective projection is and planes must all be perpendicular to the imadmissible.

sufficiently indicated by three quantities (7, 72, 7). So described, for examples;—

The tip of the nose would be	(0, 90, 6)
The patella would be	(0, 26, 3)
The lesser canthus (external commissure of	
the eye) would be	(3, 93, 4)
The junction of 8th rib with 7th seen in	
deep inspiration) would be	(3, 69, 7)
The inner end of collar-bone would be	(1, 81, 4.5)

If these and all the other important parts (about 500) be determined and the graphs drawn the figure will appear plotted out in proportional measurements to $_2b_6$ of the whole height, say a measurement for every three millimetres. Seen from a point vertically above the axis the system thus appears (Fig. 7); cashp and jeAfk are the upper edges of the vertical planes shown in Figs. 6 (a) and 6 (b). All measurements are taken by points in projectors falling vertically upon these planes. For example, the distance n-n between nipple and nipple is the distance between two planes passing

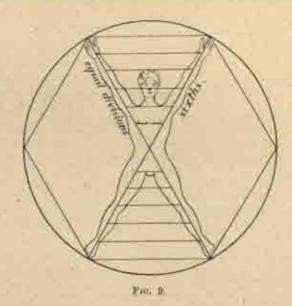


through n and n respectively parallel to Ak, at right angles to oA. Neglect of this principle will produce an unreliable variety of readings, because foreshortening, the undulations of curves, and a dozen other slight causes interfere with almost every other method. The height of a statue in relation to its breadth cannot, for example, be truly taken by radii from a single point. The labour of marking out the positions of points on the principal. the transverse, and the horizontal planes is well rewarded by the accuracy of the measurement. The 500 points which fix a carefully plotted 'elevation' front and profile of a single figure may profitably be augmented by additional measurement of the body in its posterior aspect. In other papers I hope to be able to give the scheme for the back muscles, but for the present purpose it is suffi "t to give anterior and lateral aspects only as in Plate VII. 1 think, also, it may be well to publish a chart for the female figure, but the differences are not. I find, sufficiently important to after the scheme. On Plate VII. I have marked the centres and radii of the normal mamma in front and profile, and the exact dimensions for the pudenda muliebria. Whether as it is alleged, great differences can be established between the male and female skeletons and musculatures will appear from the records

^{*} And therefore not by photography.

Hitherto I have used with complete confort this same scheme for both.²¹ In such a system of coordinate planes the body to be measured is placed in an erect position, so that the line of intersection of two imaginary planes at right angles may pass through the points shown on the vertical axis, $\phi = 0$, of the scheme, Plate VII. (oy of Fig. 6). For convenience these may be considered separately. The front view in Plate VII. shows the body placed against a background parallel with the transverse plane, so that $\phi = 0$ forms also the edge of the median plane (for the moment invisible). On this background the points of the body, viewed each one along its own line to the background, may be registered whenever they form part of the outline ²²

A more complete registration can be made on a sheet of glass placed before the body and parallel to the transverse plane, through which all front-



view surface markings are observed by the eye perpendicularly to the transverse plane.

Let the student consider a body behind a sheat of glass so placed. Let him then proceed to trace out the geometric scheme of the straight lines of

H.S.-VOL XXXV.

[&]quot;No such difference is to be found distinguishing an Apollo from an Aphrodite in Grack or Grace-Roman art as those with which we are familiar in the drawings of Rubens and Durer. In the former there exists a beautiful Hermaphrodite type (see Relmach, pp. 267, 371 egg.) which is really Hermae-Aphrodite and which could not be somposed out of the male and female norms given by Direct for example. Direct female (see above, Fig. 3) is not merrify

sexually different from his mule; it is also to some extent generically different, and this difference does not exist in the Greek starnary.

^{**} For those who are not interested in the geometric details it may be sufficient to say that a model standing in a corner of a room would give in sharlow outline our figures of Plate VII. on the two walls, if the light were made to full perpendicularly on each wall in turn.

the scheme. Let the model so placed stretch out arm and leg ²²⁰ (Figs 9 and 10) so as to make an oblique line at an angle of 60° with the ground. This line will pass normally through the umbilious, the mammilla, and the acromion process. It will then give the extreme possible length of the body (and I am inclined to believe the normal length). The ratio of this length to the sole-to-crown standing height is as 4:3. As we shall desire to use decimal or percentage notation for records we may count this ratio as 133\frac{1}{2}:100, but I believe mature's ratio ²² would be 132:99 (viz., 12×11:9×11).

Let the model now stretch the other arm and the other leg at the same angle. The lines now traced on the glass will cut each other (see Figs. 9 and 10) at 60° in the ambilious and will make, when the figures are

completed by horizontal lines, two equilateral triangles."

It will be convenient now to mark in the points at the extremities of the vertical axis, the full height of the standing figure as ordinarily taken. This if the model is normal will be, I think, 99 (as against 132 allowed for the tip-to-tip measurement). For convenience of reference let us call this height 100 points, and then immediately other equilateral triangles can be marked off, viz., at 50 of these points from the ground an equilateral triangle whose base is level with the pubic crest, 35 whose height is 10 points, and whose apex consequently is in the umbilious. Above the umbilious let 20 points be now measured along the vertical axis of the figure, and an inverted equilateral triangle can be made whose base angles are at the acromia. At half the height of this triangle another may be marked off whose base will be in the sterno-xiphoid plane. On the inter-acronial line just found, if another triangle be erected, its height should be 20 points and its apex in a normal figure should be at the highest point in the skull. We have now the (thick-lined) scheme of proportions of Fig. 10. I have called this the Rhombic type because so many important points available for measurement and well marked anatomically are found at the angular points

In order not to disturb the median line the body must be estimately supported, or laid at rest on the back, when the ususurement may be taken perfectly.

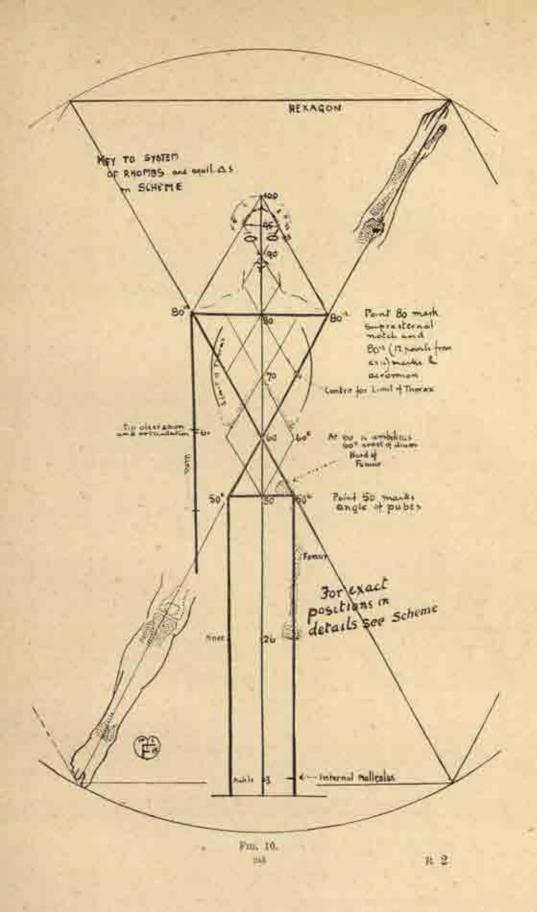
" I do not believe that our decimal metation

is fundamental. Obviously it does not use the prime numbers so simply as the 66, 99, etc., $2 \times 5 = 6$, $3 \times 5 = 9$, $2 \times 5 = 50$, $2 \times 3 \times 11 = 66$, and so on. Tens and hundreds are assumbary.

subdivision into sixths brought one to those some points and planes already found to be significant and anatomically good. The further subdivision into sixtleths I have done with remarkable results, but I shink if some one would try a subdivision into 36ths the results would be very interesting. Indeed, I think a science of proportional measurement recorded on the scheme of Fig. 10 would be theoretically sounder than that of Plate VII. (and, practically, the same), measured as finger-tip to see tip is rational, whereas beel to grown is not, the head being as accidental stopping place.

" I had put if two points lower, being led astroy by the models I had mad; but I am indubted to Mr. Tonks for the correction. He would wish to see it raised two points more.

[&]quot;In the hope of interesting others to work out the geometric hints of this inp-to-trp measurement (which I have returbantly abandoned in favour of the ordinary standing height) I subjoin a note-book jotting of some remarkable results which I got from pursuing it is little further. In addition to the St. Andrew's cross and matribed hexagon (which has long been known) I found that a further



or at the points of intersection of the rhombs which arise from continuing the development of the system, as depicted in faint lines in Plate VII. (It is distinguished from the slightly shorter and squarer type of figure given by a system of squares shown in Fig. 12.) Other points in the completed scheme are more conveniently referred to the squares made by vertical and horizontal planes intersecting on a system of points and tens of points.

The whole result is condensed into the system shown in the scheme, and there for the present I must leave it: a detailed explanation would fill a

large book.30

Le plus fort est facit, and since we have here also the points of measurements for the arm-bones, we have already ten cardinal points of the skeleton for the determination of any body. On these alone some important generalisations might be made. Fig. 11 shows the application to the notification of particular variations from the normal to be observed on a dozen statues in plaster or in marble to be found in the museums of Europe, and recorded (by myself) on Fritsch's canon which has sixteen or seventeen points. The markings are, obviously, roughly made for general comparison only.³⁷

A remarkable indication of chronological data is suggested by the grouping of these twelve markings. They are chosen casually from about forty markings made at Prof. Ernest Gardner's suggestion because of the uncertainty or special interest of their dates. I took this small selection without any other consideration than that of illustrative values and spread them out in the order of their complexity, taking first those shown on the highest row because their marked variation was slight, and then those of the second row having more variation from the normal, and last those which varied considerably. And then I observed that I had unconsciously arranged them, with one exception, also in chronological order! The simplest are of the fourth century i.c. while the complex variations are in figures of the sixth century i.c. The one exception is interesting: the Athlete pouring oil, which is generally classed doubtfully, as of the fifth century i.c., appears among the fourth century figures.

Now if these very broad lines of differentiation give in so few figures so interesting a classification, may we not hope for much when mathematical biometric analysis is applied to detailed markings in the full scheme? Some of these (the Doryphores, for example) are markings of Bruckmann's plates, very excellent reproductions, but still not the same thing as the cast. The

dayres, p. 16.

[&]quot;If it should be saked why, since a roughly unde comparison like this giver such results, it should not be sufficient for practical purpose the answer is that it would be sufficient for each observer for himself, keeping to himowe method in details, but that the observations of two observers could not sefely be compared. General comparinous, uniform precise points of reference, are unreliable.

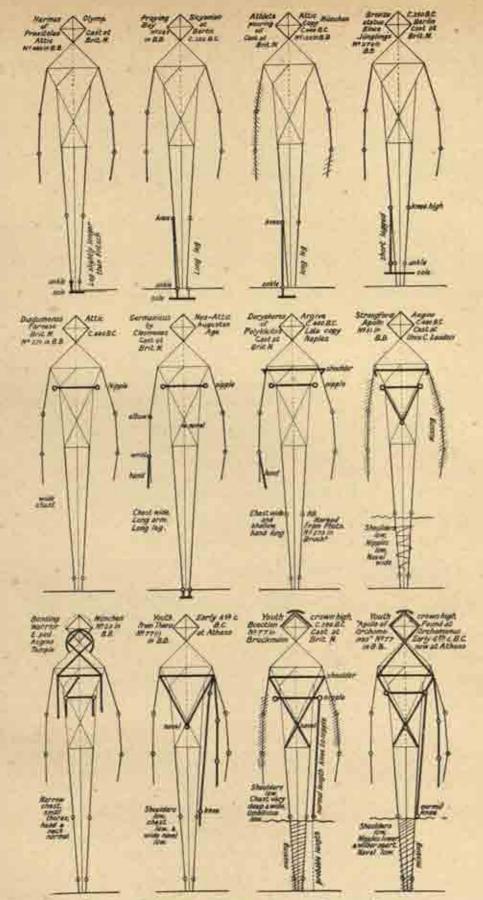


FIG. 11.—COMPARISON OF STATURS BY A FRW CARDINAL POINTS.

Doryphoros I have I see, named wide and shallow-chested. Now it is true that the shoulders are abnormally wide; and this, especially in the photograph, causes the chest to appear shallow. But my markings from the British Museum cost do not show a shallower chest, in actual dimension, than the ordinary. The photograph correctly shows the hand as longer than the normal.

As a slight example of more careful marking I have reproduced a (rough) copy of my scheme showing some other ratios and marked with the true proportions of the pelvis of the skeleton hanging in the dissecting room of the London Hospital in 1914 (Fig. 12). It also indicates some convenient geometric values. Others again are indicated on the complete scheme (Plate VII.), to which alone the reader will please refer.

Let the student now turn to the construction of the scheme of markings on the transverse plane observable in the profile view of the scheme (Plate VII.) and Figs. 12 and 13. This is already partly prepared by the horizontal planes (found for the front view) which are the same for both.

For the pelvis and thorax we proceed thus: two intersecting squares are drawn in the geometric relations shown (by the construction lines on the right of the figure), so that the horizontal diagonal of the lower square is 50 points from ground. One corner of the upper square marks the anterior superior spine of the ilium, and a line drawn from this point to the 80th point in the tertical axis gives the axis of the thorax (which is not the same as the vertical axis of the body). Figs. 18 (a) and 13 (b) serve only as keys to the scheme (Plate VII.) in regard to anatomical details.

For the thorax, I have made the happy discovery that the geometrical outline for the pelvis can be conveniently drawn as interfaced squares shown in Plate VII., and if (in profile) the axis of the thorax be first made identical with the vertical axis and then inclined about 15° until the lower end coincides with the superior anterior point of these squares the normal position and shape of the thorax in profile is indicated by symmetrical ares of circles with centres at the lowest point of the scapula and the nipple respectively, the normal width being fortunately that of the unit of measurement, already seen in the inter-acetabolar distance. For the thorax in front view: from the centre ** (marked with **) on the fifth rib with radius measured from that point to the fifth cervical vertebra the arc of circle may be drawn which marks the boundary of the wall of ribs.** (See Fig. 10.)

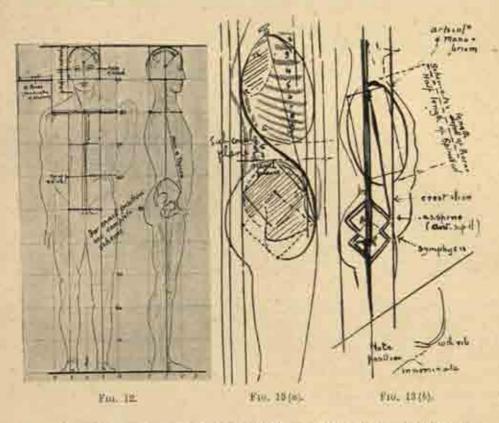
The horizontal planes are remarkable for position and relations of their distances. At point 90, that is at a distance of one-tenth from the top of the axis (that is from the middle of the great arch of the skall, the centre of which is marked by a 11) the plane of the base of skull is contains as

Its position is found by the thomb whose vertical axis is umbilious to supersernal-notch

^{*} Sec note 36.

The line well-known to mintomists as Raid's fame line is two points above this plane and parallel with it.

points easily determinable the mastoid process and the masal spine, which may be taken as marking the atlas or topmost vertebra. At one-tenth lower down the axis, viz., at point 80, is the plane of the acromion (the sharp upper border of shoulder), the suprasternal notch (between ends of collarbones). At 60-hundredths the plane which contains the navel, the well marked tendinous intersection between two sections of the rectus abdominis, the upper edge of the prominent external oblique muscle, and the crest of the ilium. At 50-hundredths above the ground lies the horizontal plane containing the great trockanter, the lower tip of the backbone, the pubic crest (the upper edge of the pubis bone) and consequently the lower

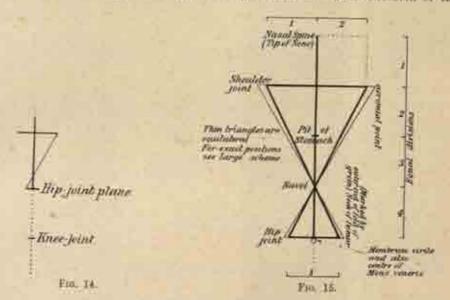


extremity of the rectus muscle of the abdomen, and the points of maximum convexity of the buttocks.

The vertebral column stands between a plane five-tenths from the ground and a plane at nine-tenths; it is four-tenths in vertical height. It is thus twice as high as the shoulder-joints are apart, and four times as high as the hip-joints are apart. It follows, from these dimensions, that an oblique plane revolving about the front-to-back line of the navel would join the shoulder-joint with the hip-joint (Fig. 14).

Fig. 15 shows in the thicker outline this combination with some other details, and also shows the result of further revolving the hip-and-shoulder planes aforesaid until they form with the borizontal planes equilateral triangles. This marks the difference between the scheme for the square type of man and that for the rhombie, It is the latter which I have developed in the scheme (Plate VII.). The thin lines show the rhombic arrangement.

The reference which can safely be made, for the general proportions of the figure, to the articulations of the skeleton reminds us of the debt we owe to Fritsch's Canon, which is the rule of the articulations. By its aid a sculptor might safely build up an iron framework for the main proportions of his figure: it could not then be disproportionate in the main. By its aid I was able to interest an audience of well-known craftsmen and eminent artists at a meeting of the Art Workers' Guild in a demonstration of the



President's and Professor E. Gardner's principle that the main tectonic of the human figure is geometric in its nature. I have been obliged to abandon the articulations as points on which to base an anthropometric scheme because of the largeness of some of the joints and the consequent lack of precision in the measurement. I spent much time on an attempt to fix points within the joint-system itself, but got nothing uniform. The best measuring-point for the shoulder is the acromion process, and that is just outside the joint.

For mnemonic " and rapid constructive lines the articular system is, however, excellent—and wonderful!

Himmerus = Shoulder-joint to mipple,

Ulna = Nipple to mavel, Hand = Navel to hip-joint,

Femur = Hip-joint to nipple on oppoatte side, Titus = Nipple to hip-joint on some

Height of fact - Hip joint to public symphysic. Except for normal ratios, the difference between his and mine is unimportant, and Fritself's plan is easily used on my scheme. But when a normal ratio is in question this is not suff-

Firstech's most convenient ememorie says;

The head deserves a separate explanation, which must be reserved for another occasion. The scheme of proportions which I submit in the scheme is shown on the Plate and on Fig. 16. It works easily in with Winckelmann's method, though it is much simpler, and has the advantage of geometrical contour, so that the result can be recorded graphically as well as numerically. The proportions, which he has actually found to held good as canonical satisfy my scheme quite closely. For instance, he finds the Polykleitan Canon to be:

which is the same as the proportion of the Theseus head on the Parthenon gable. My scheme gives 7:3:41; and the 3 is measured from the bony



Fig. 16.—Proportions of Head (FRONT VIEW).

point a little higher than the fold of flesh which the others use. (See Fig. 22, various norms.)

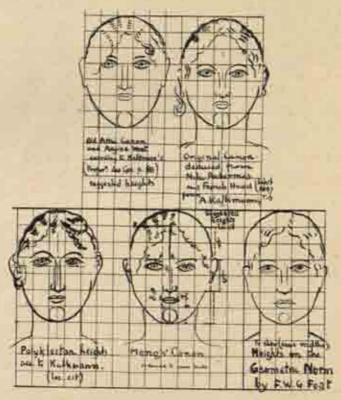
Some interesting diagrams which I had prepared cannot for lack of space be given here. I must content myself with submitting six canons which I have plotted for comparison on my scheme, the last being my own.

ciently accurate. Apart from the weakness of a measurement made from a point so movable as the nipple, there is the much more secunobjection that the track of the measurement from shoulder-joint to hipple, thence to mavel, and thance to hip-joint is over hill and dale, saming the elevations and depressions of soft parts. I found that so much allowance had to be made that measurement was inconvenient; while points on the same plans were most sailly found. I call the reader's attention to the mnemonic 'spectacles' made by the eyes:



in which in my own scheme the divisions are equal; and also to the relative sizes of eye, mouth, and nose, viz., 2:3:31, the sur being the same as the nose (nasion to masal spine). For the rest, Geometric Man must speak for itself.

Fig. 17 shows the effect of reducing to same scale Mengs' Canon three Greek Canons suggested by Kalkmann, and mine, and plotting them out as



Pro. 17. - Couranness or Casons. (Heats.)

in my scheme, in hundredths of the body's height. I give 14 hundredths to the height of head, " and the classical tenth of stature (10 hundredth) to the

Faun of the Capitot between 75 and 3 heads. I have therefore presented a large head (7-1 heads only to the height), but there are many classical examples of it. On the other hand, the foot I present (the same length as head) is small.

The athlete of he bendelette, formerly in the Farness Palace, classed as of Polykhattos, has a local, says Cathlers, 0.255 m., on total height 1.50 m. (7) nearly to the height). There's, he adds is 100, 7-419 heads in the height); and the heaviside of the Parthenon and the

face—so far as that may with precision be determined by the hair of the forehead.

Although I am obliged to pass over without comment the other details of the head as indeed most of the details of the body. I am confident that the reader will be repaid by a study of them on the principal scheme (Plate VII.); which, though it cannot make as clear as they deserve relations of nusseles, tendoms, etc., nevertheless avoids the insertion of anything that is not carefully considered. Nothing has been put in the way of inture investigation. The details of the face, for example, are not shown large enough to be safely used for a large scale plan; but at least there is nothing wrongly drawn for the sake of an artificial completeness.

We have now at our disposal in the reference of all points of the body to our coordinate planes a standard notation by means of which we may

describe every point as to its position in space.

By the construction of a scale for each figure (keeping for convenience to the 100 points as the 'height') we are independent of absolute dimensions. that is dimensions registered in feet and inches or else in metres and millimetres. And by recording each body's dimensions in its men points " on a common scale we have a direct comparison with other bodies of whatever actual dimensions recorded on that scale. All that the observer has to do is to decide what convenient number of millimetres he will count as a point and then reduce all millimetre measurements to points in the scheme. For example, if the parts of a statue or a living body 2,000 millimetres in height seem to the trained eye to be fairly proportional, it will be satisfactory to proceed at once by counting every 20 millimetres as one point, uniformly recording all measurements in terms of points. The shoulders, for example, being found to measure 660 millimetres, will be registered 33 points. And if in another body-a very small statuette, for instance-the single point be taken as 2 millimetres, then the shoulders measuring 66 mm, will be again registered as 33 points on the common scale, and so be seen to be in that case proportionally the same.47

But, it may be asked, what is the result if the point be unwisely calculated on an apparent harmony of the parts; if, for example, an extremely

convenient. All my own records are made on a figure 252 mm, high, that being the marest to a round number in suches (viz. 10 inches). The agure in Plate VII. and clouchers in this article have had to be reduced for convenience of printing, but all the original resords were made on one scale. The diameter of the hoxagon on the tip-to-tip measure is on that scale 4 of a nertry, or rather of 999 mm. I make 4 of a nertry, or rather of 999 mm. I make that we are all aroug in making 1,000 our round number instead of 990.

This, it will be remembered, would eatisfy Leonardo da Vinor's demand for harmonic propertions complete for each individual, sympathetically expounded in hierardelle deti-

⁴⁾ If all observers will under the records on a geometric figure of the same absolute anglet in millimetres, the work of subsequent collation will proceed, in athnological anti-reponetry and in art criticism, with greater comfort and impidity. I think the quarter-metre or 250 millimetres (crown to sole) might be found

narrow-chested body be measured by points calculated from shoulder-width? The answer is that nothing more than a little inconvenience in comparison with other figures will result. The record of the proportions will be quite true, though it will show a figure whose tall head and long legs seem out of due proportion to the chest, instead of one whose narrow chest appears out of due proportion to the long legs and head; and the restoration to the common scale will be correctly effected by a simple reduction. I suggest that we take wherever possible the hint given both by Nature in the proportious of the embryo in utero and by Fritsch's Canon viz., to require the vertebral column 42 as the modulus or norm of reference. For the completely flexed spine Prof. G. D. Thane remarks " that its overall length is one-seventh greater than that of the erect spine, to and this allowance may have to be made in bending figures. In an heroic statue, for example, of 2,000 millimetres an allowance of 4% ins. (=114 mm.) would account for the effect of spreading out the spinous processes in flexion; but only in complete flexion: in the Discobolus for instance it would be too great an allowance. I have found by experiment that the actual length of the vertebral column is 1-3 points (The to ile of height) greater than its vertical height. This vertical height is shown on the extreme right of scheme (Plate VII.)) it may safely be computed in the front view as lying between the plane of the pubic crest and that of the masal spine and mastoid process (when the eyes are directed to the horizon).

But, though provision is thus made for exceptionally difficult positions of the vertebrae, there is no need to trouble much with them. The computation of the point can be made from any of the standard dimensions.

The computation of the millimetre value of the point having once been made, the measurements can be made throughout, notwithstanding the position of the limbs or contortion of the body.

Here, of course, the observer's knowledge of anatomy is often severely tested, it may be even that some measurements have to be abandoned for lack of visible data. In a Silenus, for example, many of the anatomical features shown on Plate VII, are obscured by the smooth roundness representing fal.

To commence measuring from the ambilious is usually a satisfactory procedure. It may, however, in some cases be found to be abnormally displaced: then it is better to begin with the upright of the _____ (of which the top bar lies across shoulders). Then the other lines of the _____ shown on Plate VII. can be marked off, and next the rhombs and triangles and

⁶⁵ Its height and place on the scheme are shown in Plate VII., right margin.

[&]quot; If I have normally reverted my notes of his lectures on anatomy for art students which I took in 1906.

at The difference is due not to the spine's compressibility, which in its columnar portion is very slight indeed, but rather to the longer when of the spinous processes when spread finger-wise in flexion.

squares connected with them, as convenient, the anatomical fact being always first observed. Bit by bit the whole is recorded on the common scale until as many observations have been made as required.

These remarks are merely illustrative. The measuring is complete and

good in proportion to the observer's knowledge and practice.

In experimenting with this scheme, and in testing the accuracy of any of its ratios, allowance must be made for appropriate facts. For example, that the body being here seen without any foreshortening, each point is not on a radius, as it is in the photograph and ordinary drawing, but on a vertical projector of a plane; e.g. the outer top of the great trochanter approaches quite closely the muscular line of the hip when considered from a point in the same lateral plane, whereas to the ordinary spectator who sees both hips from the same focus the glateus medius muscle and the tensor vaginae femoris make an obstruction, a projecting curve behind which the really subcutaneous surface of the trochanter will seem to be hidden an inch deep. Another fact to be generally allowed for is the optical effect of the absence of foreshortening; some surfaces on a body not drawn in perspective but plotted out as in all these figures, must necessarily appear unfamiliar to the eye—like a land-surface in Mercator's projection, only worse, as orthogonal projection is more distorting than spherical or focal.

Any attempt to apply a scheme to the measurement of statuary must be made with the knowledge that much variation in detail is to be expected in all the parts. The immense industry displayed in A. Kalkmann's tables of facial measurements of Greek statues (in the monograph quoted above), and giving four or five thousand millimetre measurements of the chief distances, reveals a diversity which admits considerable extremes. Hardly two of the faces are found to be of the same proportions, and such variation as 88.9 points in extreme width across both eyes in the Apoxyomeuos of Lysippus against 100 of the Doryphoros and 104 of the Hermes of Praxiteles (the total height being taken as 2,000 in each) are not at all extreme: the Naples Apollo has 120, and the Sauroktones Villa Albani has 130.2 on same scale.

As regards the shape and proportions of skull:

the Lysippean head at Turin (J.H.S. xxvi. Pl. XVI.).

the Oldfield head of Apollo (J.H.S. xxiii, Pl. III.).

the Demetrius Phalereus at Florence (J.H.S. xxiv. Pl. IV.).

the 'Narcissus' in possession of Philip Nelson, M.D. (J.H.S. xxvi. Pl. 1.).

the Westimcott Polykleitan athletic (J.H.S. xxxi. Pl. II.).

if now the eye on the same side be correct, the trages will disappear behind the enree of the check. N.B.—In the pertions finished in ordinary shading, ordinary perspective has been introduced where possible as a concession to artistic feelings, 75 µh vidésa vpdrasaga vý ádekog, 8 ordaslador.

[&]quot;With this emphasis I must reinctantly leave the whole of the Topographical Anatomy to a later paper.

An easy illustration of the amount of difference is obtainable by looking at one's face in a surror (at a focal distance of 12 tuches) as inneed that the trague of one car is just visible;

present marked differences in the relations of the parts, differences easily and precisely ascertainable by reference to our scheme.

It is useless to seek for a single universal ideal or a normal or an archetypal example of detailed proportions present in any one statue. What is
here offered is a presentable standard scheme or criterion of comparatively
casy application for all points of the whole figure. It offers definite, if
arbitrary. It means of reference and description, and must in all other respects
crave indulgence from the experts.

I add a final word about laboratory and tools. The ideal work-room would be a combination of artist's studio, photographic studio, and physical science laboratory, provided with a good many things usually found in the engineer's office. A living model to take the pose of the statue, adjustable lighting to throw into varying relief the details of the statue, and backgrounds, etc., of graduated scales would add much to the accuracy of the work.

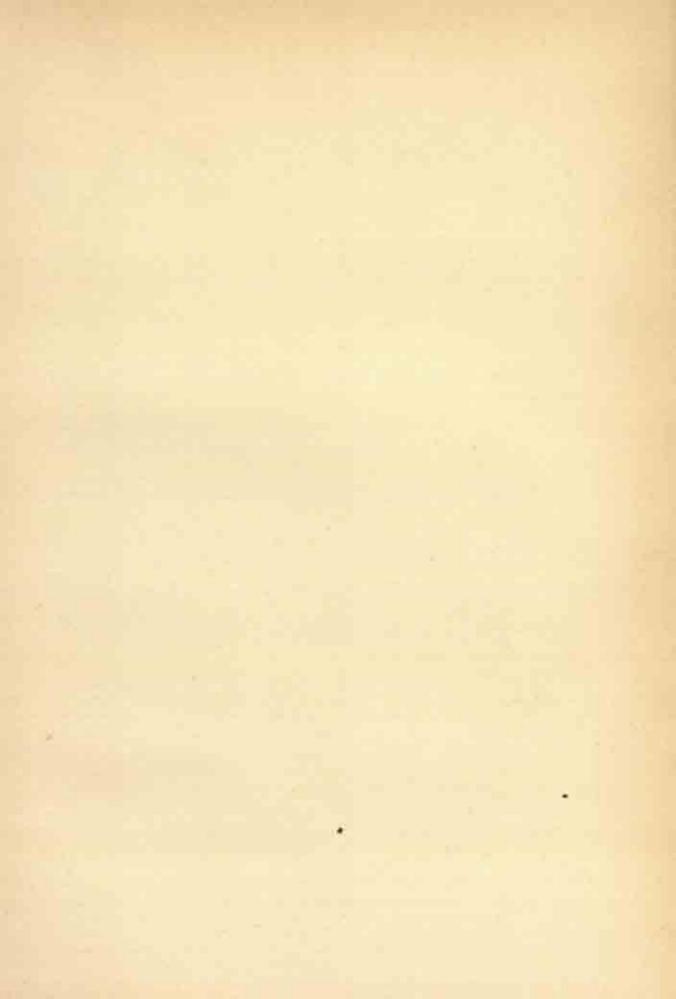
As however, the measuring has usually to be done wherever the statue happens to be standing, and one is often working on a pair of ordinary steps which have to serve as platform and dosk, the best thing to do is to make sure that the main conditions are secured. The first of these is a reasonably regular treatment of the observations. Genuinely orthogonal projections may be secured, within a little, by means of some distant object behind the statue, and the eye may be guided by chalk lines on wall and floor; for practical purposes I find that the lines marked by floorboards and window frames give sufficient guidance to the eye.

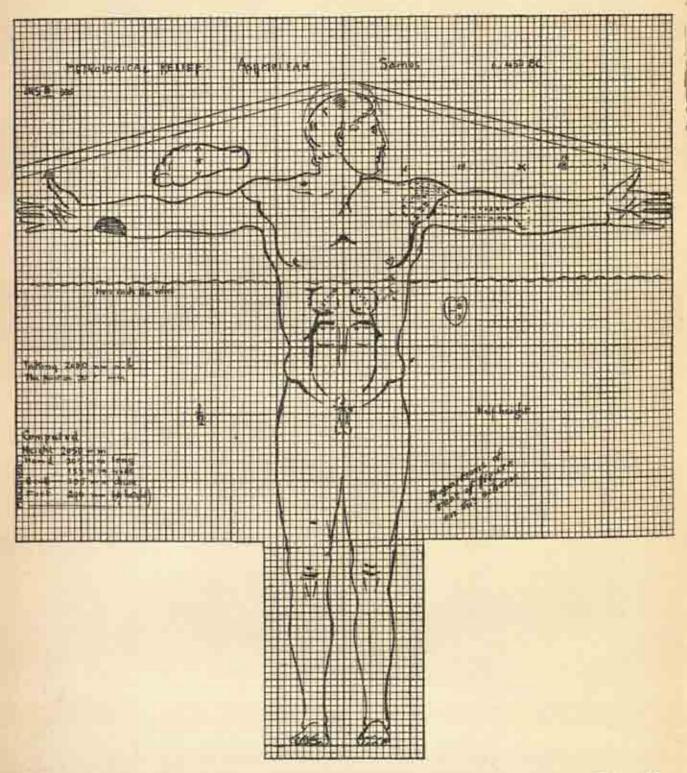
Mosses Stanley & Co. would be willing to make up an adapted form of sliding or beam compasses (in which a pair of travelling perpendiculars take the place of the usual 'heads'), which I have suggested for perfectly accurate observations. A spirit level, a plumb-line, a T-square, and various surveyors' instruments are also serviceable. Almost immediately necessary is the construction of computing scales and proportional calipers. Makers to whom I have explained their construction are willing to make them, to order. A complete apparatus for perfect record-making would be quite elaborate, and a specially designed studio would have very great advantages. But then! The good and careful worker will do better work with simple apparatus than a less careful worker with elaborate instruments. I can only say that good tools do make the task casier.

The Committee on Anthropometric Method of the British Association

or by friend, and I have had the commet and help of some of the most emitent in all the faculties. If the school (Plate VII.) should some comparatively simple, it is a simplicity resched after many smallfleations and much 'trying back,' to which dozens of trial schemes of mine bour ample witness.

[&]quot;The arbitrariums is however, only in the final edection of a set of positions from summy innonnerable alternatives presented by the mitual practice of artists and surgeons, text-books and art schools, systems and theories, ancient and modern. I can only say that I have not reglected any suggestion made during five years' demonstration of the scheme by book





1 To face p. 255.

indicates the most approved height-meters, 'callipers,' 48s radiometer, tapes, etc. 48s; but at least three new instruments are required.

V.—Illustrative Records.

Its use for the measurement of some well-known statues is shown by the following markings. The thin line shows the norm for the part (according to Scheme) and the thick continuous line the particular variation of the part in the statue. All parts not marked agree exactly with my scheme.

Fig. 18: Metrological Relief.—A careful remeasurement and reduction to the common scale of 10 inches or 252 mm. of the very important relief at

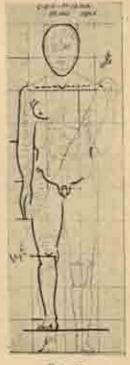
Oxford, which was found on Samos and is assigned to the middle of the fifth century a.c. Professors Percy Gardner, Michaelis, and others have no doubt that the main intent is to serve as a standard of measures "; and it is highly significant that this standard is human. Why then should we not expect this standard-man to be modelled in careful proportion according to type? And the main type would possibly be the Athenian, Athens having recently conquered Samos.

I have used my record principally to show the restoration of the missing parts of the figure ac-

cording to my scheme.

The next group shows (Plate VIII) the proportions of two copies of the Diadumenos of Polykleitos, and one ropy of his Doryphoros. Unless either I have made a wrong record or the common attribution of both to Polykleitos is doubtful, we have here two distinct sub-types (may I say !) of the Diadumenos. (An accident has prevented me from adding a third measurement, viz. of the Madrid Diadumenos. I think, however, the comparison will be interesting enough for another article.)

Taking these records as they stand, they suggest that the Vaison copy is probably not of Polykleitos; but that the Delos Diadumenos and the Doryphoros



Fut. 19.

fulfil in detail the requirements of Pliny's famous judgment he that the Diadumenos was a softer treatment of a youngish male (juvenem standing

to emphasize its standard value. Vitravius (iv. 3. p. 91) mays modulus quae Graces & Barge. Now one monthing of \$aBdress is a similal.

So the Report spells if, in defining of the etymology (= salites) and of (some) dictionaries.

A shilling pumphlet, British Asser, Anthrop Insestigation in the British Islan. Espect of Committee, with additional Illustrations, 1909. Pub. the Royal Ambrepological Institute, 30 Great Russell Street, W.C.

[&]quot; Note the foot print over shoulder, obviously

Plin. Hod. Nat. xxxiv. 55: Polyofetim... Diadrimsuum feelt molliter Inveneus, centum falentis nobliitatum, idem et Doryofetium similitar paseum feelt; and ab 56: Quadrata tenum ex asse tradit Varro et paseu ad mum examplum.

for anything between twenty and forty), while the Doryphoros was a stronger treatment of a youthful figure. Yet these two are pueue ad unum exemplum. To the Vaison copy, however, this last remark will not apply, the exemplana being of another build.

In the next group (Plate VIII.) come an archaic statue, and the Piombino. which is reminiscent of its proportions, and the Cassel Apollo (Terme).

These three show how evolution of type is recorded by the scheme.

In the next group (Plate IX.), a youthful Athena judged by Professor Percy Gardner to be Myronic, is compared with the 'Esquiline Venus,' So far as the chinging drapery permits one to judge, the Athena is of anatomical proportions not dissimilar to the others. Neither is a distinctively female figure; the breast of the Esquiline is of the same 'make' as a male breast, a little fuller.

The Athlete by R. Tait McKenzie (see Plate IX), an American sculptor, was composed on the average proportions of 400 Harvard students, athletes and others. It was intended by the sculptor to be a norm or canon; I have

plotted it out to show its proportions on the scale of the scheme,

I add four illustrations of the recording of proportions of living models in the same scheme. They are (1) a young Englishman of twenty, since made lieutenant in a Yorkshire regiment; (2) a young English woman of nineteen, virgin; (3) and (4) an English boy of seven and another of five, both in sound health and of normal development. Marked only where not accordant with my scheme. Nos 1, 2, and 3 are on Plate IX.; No. 6 is Fig. 19.

BIBLIOGRAPHY

Arby (Prof. of Berne). Articles (1) Der Ban des manschlichen Korpers, and (2) Die Altersverschiedenheiten der menschlichen Wirbelsäule, both articles in Archie für Anatomie v. Kniwskeiungsgewhichte.

Amlerson, W. (translator of Brücke), Brücke's The Humon Figure. London, 1891.

Audran, G. A sork on proportions in 'heads, parts, and minutes.' Les proportions du corps humaria, 1683 fol., English trans, 1790, in Brit. Mus. print room.

Aristotle. Post, i. 447, iv. 1448 and 60, xxv. 1461, ii. 1448, ix 1451. Metaph, xiii. 3, 1078; Positic. iii. 11. 1281. On the artist as gauge's and with reference to parpasses and organization.

Arphe y Villaphana De Varia Commensurarian. 1585.

Baxter, J. Statistics medical, etc. of Proceed Marshel General's Bureau, 1, 62, 1875. An outline of the instory of anthropometry.

Bergmüller, G. Anthropometria, 1723.

Blane, C. Grammaire des Arts du demin (Canon, pp. 37 ff. Middle finger as unit. nineteen divisions of the body). 2nd ed. 1870.

Biometrika. Cambridge, 1901, etc. Especially ii. pp. 1-23, 345-47, and 349-56.

Bossi, Gins. (1) Storia delle Arti. (2) Del Comunida di Leonardo da Finci; a chapter in

Book IV, deals with Opinion di Leonardo intorno alle proporzioni di corpo umano 1810. The Opinioni separately in 1811. With plates. For an account of Leonardo da Vinci's search for the Canon.

Bonomi, Joseph. The proportions of the Human Figure, with ... instrument for the identification, elc. London, 1880. (With Scheme, and Bibliography, n.c. 53 to s.D. 1879.) Excellent drawing. Important work.

Brücke, Ernst. Schönheil in. Fehler der mensch, Gestalt. 1891; Eng. trans. The

Human Figure, 1900.

Bulle, H. Der schöne Mensch, With Plates, 1899.

Camper, translated by Cogan, T. On the connection between the Science of Austman and the Arts of Drawing. 1794. Camper was the discoverer of the facial angle and the ellipses for almuhlers and pelvis.

Carm, C. Die proportionalshve der meuch, Gestult, fol. Leipzig, 1854.

Cesariano's edition of Vitravius. Como, 1521.

Choniant, J. L. Geschichte w. Bibliogr, der augtom Abbildungen. 1852.

Colemno, R. J. (1) Living Austrony, 1900.

(2) Landworks in Artistic Economy, London, 1902.

Conway, W. M. Litecary remains of Albrecht Dürer, Camb Univ. Press, 1889. Indispensable for Durer.

Conze. Article 'On the Eye in Ancient Sculpture' in the Sitzungsber, d. k. Alad. d. Wiss, Berlin (1892) vii.

Craig, J. J. Anthropometry of Modern Egyptians. 1911.

Cunningham, D. J. On the Lumber Curve. Conningham Memoirs, Vol. 2. Cunningham, D. J. Text-book of Anatomy. 4th ed. 1913. See Stiles, infra.

Dictionnaire Encycloped, des Sciences Med. Article a.v. Authropologia. Paris, 1866, ste. An outline of history of Anthropometry down to 1866.

Direc, A. (see also Conway, supra.) (1) Della connectria dei corps humani. Especially his portfolios. Venice, 1591. Poca et debole cosa questo libro, - M. Angelo. (2) Les quatres livres. 1613. Also (3) an introductory treatise, The Tenching of Mousinement by Bule and Compress; Underweyssam der messung mit dem zurekel u. vichtscheyt. 1525.

Duval, M. Grundriss der Anatomie für Künstler. 1891.

Duval, M. Artistic Anatomy, 1905.

Duchenne. Sur l'ensellure lambo-acrèe des femmes de Boulogne, in Bulletin de la Soc. T Inthrop, de Paris. 1867.

Paul J. The Anatomy of the External Forms of Man. London, 1879.

Fawcett, Cicely D., and Lee, Alice. "Variation and Correlation of the Human Skull," in Biometrika, vol. i. pp. 408-467. Five years' work in monouring 500 skulls.

Fritsch, Gustav, with Harlen and C. Schmidt. Die Gestall des Menschen. Stuttgart, 1899;

Froriep. Charakteristik des Kopfes. Berlin, 1845,

Gardner, E. A. Scs Greek Sculptors, Especially the Introduction, Latest edition, London, 1915.

Gebhart, E. Artiele 'Canon' in Darembert and Saglio's Dictionnaire des Antiquités Greeques et Rom. Paris, 1892.

Gerrish, F. H. Relational Anatomy, being the penultimate section of his Text-book of Anatomy, 1899.

Gray, Hy. 'Surface Anatomy and Surface Markings,' being last section of his Anatomy. 18th ed. 1913.

Hagen, B. Anthropologischer Atlas, 1898.

Harless, E. Lehrbuch der plastischen Anatomie. 1858, 3 vols.

Hart, D. B. Atlan of French Police Analomy. Edinburgh, 1884. Hay, D. R. Geometric Boundy of the Human Pigure; a system of acathetic proportions. Edinburgh, 1851.

Hay, D. R. Proportions of the Human Head. Blackwood's. Edinburgh, 1846-49.

Humpary, G. M. 'The proportions of the Human Figure' in his Treaties on the Human Steleton. 1858. Gives tables based on Carus,

Hooper. Article in Med. Dict. Anthropometry, 1839.

Jacobson, W. H. H. See Morris.

Koch, M. 100 Modellandien. Laipzig, 1807.

Koch and Rieth. Dev Att. 4to. Berlin, 1895.

Kollmann, Julius. Phot. Acatomic. 1886.

Kalkmann, A. Die Peoportionen der Gesichts in der griech. Kunst. 893. G. Reimer, Berlin.

Lee, Lewenz and K. Pearson. Article in Roy. Soc. Proc. vol. 71, pp. 100 sm.

Liharzik of Vienna. The Low of the Growth and the Structure of Man. Based on 6,000 models. Let Gesetz . . Ban des Menschen, die Proportionsichee, etc. Vienna 1802.

Lucian. De sollat. 75.

Lauzi, L. A. Noticie d. Scutt. Antichi, p. 52. 1824.

Lange, Julius. Davstelling des Menschen: 1899.

Leonardo da Vinci. (1) The Literary Works of Leon. da F. by J. P. Richter. Vol. I. 1883.

(2) Quaderni d'Austonia. Pub. Dybwail, Christiania, 1914. The original is in the Royal Library at Windsor.

(3) Simmetria d. Corpi ummai. See Bossi,

Louwy, Emanuel. Die Naturwidargabe in der alteren griech. Kunst. 1900. Trs. Fothergill. 1907.

Man. The Journal of the Authropological Institute. 1901-1905.

Marshall, John. (1) Indiany for Artists. 1878.

(2) Description of the Homan Body, with plates, 1875.

(3) Life-sized diagrams of the Hunnen Body. 1875.

(4) A rule of proportion for the Homos Figure, 1879.

Mogret, Adolphe. Etude sur les Canons de Polychite. Ses Authropologie mirmale. 1895.

Mengs, A. Raphael. Opere. Parma, 1780. In Eng. trs. 1796. In German Menga... Schriften. Bonn, 1843. Esp. cap. xii. and the Armerkang.

Michaelis, A. Ancient Marbles in Great Britain. 1889.

Michaelia, A. Article: 'The Metrological Relief at Oxford' in Journ. Hell. St. iv. 335.
Morris, H. (and Jacobson, W. H. A.). Human Anatomy. Especially Sect. xiii. 'Topographical Anatomy,' by W. H. A. Jacobson. 1907. 4th no.

Moody, F. W. Lectures and Lessons in Art. 1873.

Montabert, Paillot de. Traité de la Peinture, 1820, and article in Dict. . . . des Renns-Arte.

Murray, A. S. History of Grock Sculpture. 1883.

Naogelė. Dus sevilliche Boshen. Carlsculie, 1825.

Paterson, A. M. The Human Sternum. London, 1964.

Pearson, Kari. Math. Contrib. to the theory of acaduation. Article in Philos. Transported. 187 A. pp. 253 app. Use of terms variation, correlation, etc.

Perrot and Chipies. Histoire de l'Art. (Canon, 1 767 ff.)

Plato Rep. z. 595; Leop. ii. 667, 653; Philob. 64; Tim. 87; Polit. 284; Soph. 228.
On the general principles of symmetry. No brakeria.

Pliny. xxxiv, and xxxv.

Quain, J. Anatomy, especially vol. iv. pt. i. on "Arrhrology." Eith edition. London. Queteler, L. A. J. Anthropometric. 1970.

Rawling, L. B. Landmarks and Surface-workings of the Human Body. London, 1912.
Roberts, C. Manual of Anthropometry, with Bibliogr. to a.r. 1878.

Roth, Ch. Plastinch-Anatomischer Atlan Ebner, Stuttgart, 1886 2nd ed.

Rochet, R. The Protetype of Man (Larm of Human Proportion). 1889.

Sanchez y Sanchez, D. Considerationes criticus . . . Anthropometria. A summary (in Spanish) of the state of the study, especially in reference to the Congres International d'Anthropologie, which had formulated an International Agreement at Geneva in September, 1912. Pub. in his Memorica, tour 7, 1913.

Schadow, J. G. (1) Polydet eder con den Maason des Menschen. Berlin, pub. 1834. Löndon, 1886. Fery many messarruments of models and statues.

(2) Article Canon' in Diet de l'Accelemie des Bessix-Arts. Paris, 1867.

(3) The Sculptor's ... Guide to the Proportions. 1883.

Stiles, H. G. 'Surface and surgical anatomy,' being the last section of Cumungham's Text-book of Anatomy.

Story, W. W. The Proportions of the Humon Figure. London, 1864. Gives a very full list of all who have previously worked on the proportions in ancient and modern finess.

Stratz, C. H. (1) De Vrouven op Javer. 1897.

(2) Die Körperformen . . . der Japaner. 1902.

(3) Die Raumschinkeit der Weiber. 1901.

Taylor, K. H. Treatise on Applied Anatomy. 1904.

Thane, G. D. Appendix (to his Edition of Quain's Anatomy): 'Superficial Anatomy,'

Thomson, A. Anatomy for Art Students. 1896; Oxf. Clar. Pr. Ash. G. L.

Topimand, Paul. Beiments of Anthropologie. Three concluding chapters on Anthropometry to 1885.

Urlichs, L. Griech. Kunstschrift.

Valentin, V. Die hohs Frau von Milo. 1872.

da Vinci. (See Loonardo.)

Vitruvius. iii. 1, p. 65 ; iv. 3, 91. 1st cent. a.c.

Walker, A. Bennty in Woman, chaps avii and aviii. 5th ed. Lond. 1892. A readable summary of press and cons in regard to proportion.

Winskelmann. Geschichte der Kunst der Alterthums, especially chapter on 'Von d. K. unter den Grischen.' Dresden, 1784.

Windle, B. C. A. The Proportions of the Human Body. -London, 1889. Tabulated list of Authors.

For others see the above-mentioned Bibliographies of Bonomi, Roberts, and Story.

E. W. G. FOAT,

THE PROGRESS OF GREEK EPIGRAPHY, 1914-15.

THE following summary is intended to cover the period from July, 1914, to June, 1915, inclusive. That it is at all complete I hardly dare to hope: the circumstances of the year have rendered the task of compilation peenliarly difficult, and I can but claim to have done my best to render the account as full and as accurate as I could with the materials accessible to me.

General.-Ot the great collections of inscriptions the only one which has made progress during the period under review is, so far as my knowledge goes, the Inscriptiones Graecae ad res Romanas pertinentes, to which has been added a fresh fascicule containing 313 texts, some of which come from the islands off the S.W. coast of Asia Minor (Cos, Nisyrus, Syme, Chalce, Rhodes, Carpathus), while the greater number belong to Lydia.

In connexion with the origin of the Greek script, A. Cuny's discussion of the linear writing of Crete, based upon Sundwall's Uber die corgriechische lineare Schrift auf Kreta, should be noted, as well as estimates by W. Erbt and W. Schultz of Stucken's theory of the origin of the alphabet referred to in my last Bibliography (J.H.S. xxxiv, 322). A brief but serviceable account of early writing-Egyptian, Assyrian, Hittite, Cyprian, Cretan, Anatolian, Phoenician, and Greek-will be found in an

appendix to P. Kabbadias' work on prehistoric archaeology.

C. Favre has rendered a signal service to Greek lexicography, and especially to the study of the Ionic dialect, by his Thesaurus, a complete vocabulary of Ionic inscriptions with special reference to Herodotean usage: words marked with an asterisk are common to inscriptions and Herodotus. those with a dagger are found only in inscriptions or in these and the later lexicographers and grammarians, while those not distinguished by either sign are common to inscriptions and literature, but do not occur in Herodotus. The work, which is of great value for its full citation of examples and its careful study of the original and derivative meanings of words, is rendered still more useful by the series of appendices (pp. 427 ff.), in which are collected the words found only in inscriptions, those bearing a new meaning

PP 813 ff.

¹ Tom. iv. fast v. Paris (Lemma): 3 fr.

F Rev. Et. duc xvl. 308 ff.

^{*} Oz. Lit. svii. 203 ff.

⁺ Jh. 210 ff.

[&]quot; Hoservepori Apraestoyia, Athens (Leonus),

Themarus verborum ques en titulie loujeir legandur sum Herodotes sprunne compleration. Heidelberg (Winter): 14 M.

in inscriptions, those found only in inscriptions, grammarians, and lexicographers, and so on. F. Slotty's study of the use of the conjunctive and optative moods in the Greek dialects is unknown to me. Other articles based largely or wholly on epigraphical material comprise J. Bertels' examination of the pentameter as used in Greek epigrams preserved in inscriptions.8 F. Eichler's discussion of the use in early Greek epitaphs of the terms σημα and μνημα, P. Perdrizet's study of Nemesis, in which a stele from Salonics and a terra-cotta medallion now in the British Museum are carefully examined, A. Reinach's article on the epigraphical evidence dealing with the painting of reliefs in antiquity " W. K. Prentice's statement and criticism of the various views held regarding the significance of the letters X M I frequently found in Christian inscriptions, 22 and P. Perdrizet's collection of the examples in which the wishes YFIA ZOH XAPA are engraved on bronzes, gems, and inscriptions, all of which are of Syrian origin and late date.13 A list, drawn up by S. Reinach, of the accessions made to the Boston Museum in 1913 contains a number of kalos-inscriptions and artists signatures painted on vases.14

Attica .- Among the Attic inscriptions published for the first time the most interesting are (1) a decree of 288-7 B.C. granting citizenship to one Artemidorus, probably a Smyrnaean, who conducted negotiations between Athens and Lysimachus 15; (2) a new fragment of the decree of Chremonides (Dittenb. Syll. 214), containing the conclusion of the Athenian decree arranging for co-operation with Areus of Sparta and the Spartan allies in the struggle with Antigonus Gonatas, and also part of the accompanying treaty of alliance 16; (3) a new fragment of the accounts for the construction of the chryselephantine Athena by Phidias 17; (4) the archon-list of the year 14-13 s.c., one of a group of twelve exactly similar inscriptions, probably set up on the Acropolis 12; (5) a boundary-stone of the Ceramicus, found in situ,12 and (6) two new fragments of the building-record of the Parthenon, published by A. D. Keramopoullos, who assigns them to their proper place in the whole series of accounts, republishes a further fragment of the same stele unknown to Dinsmoor in his reconstruction of the Parthenon accounts (Am. Journ. Arch. xvii, 53 ft.), and makes some valuable additions to, and modifications of Dinamoor's article,200 The remaining inscriptions, for the most part dedications or epitaphs, do not call for detailed notice here. The publication in 1913 of the first instalment of I.G. ii. has

Der Gebrauch des Kanjunktien u. Optation in den grand. Dialekten. L. Der Hauptsetz, Göttingen: 5 M. 60.

^{*} De pentamoire courrychiums Grossweine grantiones, Münster.

^{*} All Mill xxxix, 138 ff.

¹⁶ B.C.H. XXXVIII. 89 ff. 11 Rev. Ép. il. 248 ff.

¹⁾ Class, Phil. is. 410 ff.

¹¹ Res. Et. Gr. xxvii. 286 ff

³⁴ Rev. Arch axiv, 146 of Arch Asc.

xxix 495 ff.

³⁹ Am. Journ. Arch. xviii, 165 ff.; see L.G. 11.2 663.

III Class. Phil. ix. 225 ff.

¹¹ J.H.S. XXXIV. 282 ff.

³⁰ Ath. Mith. Rusin. 130 ff.

¹⁰ Arch. Aug. xxix. 91 IL

^{= &#}x27;Apx. 'Ep. 1914, 197 ff. 272.

^{= &#}x27;Apx. 'Ep. 1918, 185, 198 U. 1914, 148 U. Hh. Muz. lxix. 744 f.; Anh. Auc. xxix. 191 f.,

attracted special attention to the Attic decrees of 403–230 B.C. Two of these have been already referred to: on a number of them A. C. Johnson has published notes, mainly historical and chronological, examining also some of the criteria used for dating them, and A. Wilhelm has drawn attention to a considerable number of erroneous attributions and reduplications in Kirchner's work. Notes on and restorations of numerous Attic texts are also due to W. Bannier, while B. Leonardos and T. Saucine have corrected errors in the published versions of a metrical epitaph and a votive epigram respectively, and P. Kastriotes has shown that I.G. iii. 542, in honour of Ariobarzanes II. of Cappadocia belongs to the Odeum of Pericles, restored by that prince.

In a series of Notes and Queries on Athenian Coinage and Finance, A. M. Woodward has examined afresh the epigraphical evidence for Attic coinage in the fifth and early fourth centuries n.C., with special reference to the staters of Lampsacus and Cyziens and those issued by Croesus, the date of the second issue of Attic gold coins, attributed by P. Gardner to 393 B.C., and the reason why Melos, assessed for tribute in 425 s.c., was not forced into the Attic Empire till 416; notes on some of the Attic quota-lists are added, as also a catalogue of the coins other than Attie which appear in the Atheman treasure-records of 400-350 n.c.28 In the course of a long and masterly article on grants of citizenship made by the Athenians, A. Wilhelm comments upon a large number of wolvera-decrees contained in I.G. ii. and it, restoring, correcting and explaining the documents in question, uniting sundered fragments of the same texts and drawing general conclusions regarding the procedure followed in such grants. A. C. Johnson has returned to the vexed question of the Attie archons of the third century s.c., especially those of the years 294-262, maintaining that the cycle of the Secretaries, disturbed in 292-1, was restored in the following year and remained unbroken later; the writer discusses in passing various questions in the history of this period 20 To K. Maltezos we owe two interesting and valuable articles on chronological problems. In the first " the meaning of the phrase μετ εκάδας in the duting of Attic decrees is examined and the conclusion is drawn that it denotes sometimes a direct sometimes a reversed reckoning while in the second the differences between the accounts given by the author, W. S. Ferguson and J. Sundwall of the application of the nineteen-year cycle to the period 338/7-300/299 B.C. are exhibited in tabular form and the evidence for the crucial years is re-examined in order to support the writer's conclusions. S. Wenz's dissertation on Attic soldiers' graves 33 and

= Class Phil. it. 248 ff.

⁼ Class. Phil. 1c. 417 ff. 455 ff.

⁼ Ath, Mitt, xxxix, 177 ff.; cf. 257 ff.

²⁰ Reel, phil. Work, Exxiv. 1597 ff.

⁼ Apx 'Ep. 1018, 938

[&]quot; Ath. Mill. xxxis. 236.

^{= &#}x27;Agx, 'Eq. 1914, 148 ff.

⁼ J.H.S. xxxiv. 276 ff

[&]quot; Ath. Mill. xxxix. 257 H.

[&]quot; 'Apx, 'Ep. 1918, 109 ff, 1914, 185 ff.
" 70, 1918, 117 ff, 1914, 180 ff.

Studios su attischen Kriegergrabers, Erfart, (Ohlenrath).

that of W. Sardemann on Eleusinian traditiones of the fifth century n.c. 14 I have not been able to consult.

Peloponness.—From the Peloponnese there is but little to record. An interesting inscription of 369 or 368 s.c., discovered at Anges by W. Vollgraff, contains (ragments of a boundary-delimitation between the territories of certain Arcadian cities, undertaken by the Argives at the request of the Arcadian states which, shortly after the battle of Leuctra, determined to found in common the new capital Megalopolis SS Corrections and additions have been made to a considerable number of texts from the Asclepieum of EPIDAURUS by Ch. Giamalides, who also publishes five new inscriptions of no special interest.36 ARCADIA is represented by a fresh reading and a full discussion of the famous archaic sentence from Mantinea,37 written independently of, and therefore presumably before, its publication in I.G. v. 2, 262, as well as by four epitaphs, one of them metrical, from Aliphera, and notes on published texts from Phigalea and Lycosura: ** the few epigraphical results of the French excavations at Orchomenus still await adequate publication. Lastly, P. Hereiotes has examined the use of the curiously formed stone from AEGINA bearing the inscription με πίνε τόδε (1.67. iv. 176), and has published two brief epitaphs of the same island."

Centred and Northern Greece.-Three new proxeny-decrees of MEGARA. dating from about 300 n.c., have been published by R. M. Heath, who shows that the period during which the Megarian board of arparayol comprised five members preceded that during which the members numbered six " BOEOTIA is represented by an inscribed bowl with figures in relief and by F. Bechtel's notes on three names found in Aeraephian inscriptions,42 The contribution of DELPHI during the past year has been of considerable interest. F. Courby, after a careful examination of the literary and epigraphical evidence for the position of the omphalos, concludes that a porosstone inscribed with three letters going back at least to the seventh century B.C., is probably the original Delphian omphalos.44 G. Blum discusses the fragments of a dedication of Attalus already published and the title on the statue of [Lacratjes, one of the Actolian generals who commanded against the Gauls in 279 a.c. Of greater historical value is an Amphictionic decree " passed in 184 or 183 in honour of Nicostratus of Larisa, sent as iepoprojum by the Thessalian Confederation, which re-entered the Amphictionic Council after the fall of the Actolians and the restoration of the Council in its old form: this event, usually dated in 190 s.c., is proved by our inscription to fall in 186. Considerable interest attaches to the unique

^{**} Eleusinische Urbergubeurkunden aus dem V. Jahrh. Marburg.

¹⁶ Musmoogra, xlii, 230 ff.

> 'Apr. 'E¢. 1918, 125 ff.

[&]quot; D. Comparetti, Ann. S.A. A. L 1 ff.

^{34 &#}x27;Apx 'Ep. 1914, 134 f.

[⇒] B.C.H. xxxviii. 70 ff.; cf. Aych. Aut. xxis. 160 f.

[&]quot; Apx 'Eo. 1914, 92 (L

[&]quot; B. S. A. xiz. 82 ff.

[&]quot; Apx. Ep. 1914, 50 H.

[&]quot; Hermer, L 317 L

⁺ C.R. Acod. Inser. 1914, 257 ff.; cf. Auch. Acc. xxix, 162.

⁻ B.C.H. xxxviii. 21 ff.

^{= 16, 25} ff.

and from Eretria an epitaph " and five fragments of an archaic law, apparently judicial in character, together with a fragment of somewhat later date written from left to right and not, as the earlier fragments boustrophedon.76 A. Wilhelm has discussed 77 a name, Δυράπωστος, which occurs in an Eretrian citizen-roll, and has restored a phrase of the Chidian opcior προς 'Pωμαίους discovered at Chaleis.28 In their account of the excavations carried on in Thasos in 1913, C. Picard and C. Avezon refer to a number of epigraphical finds 79 and illustrate a relief on a painted altar, 80 while R. Herzog points out that the Δισολύμπιος Θεογένευς who figures in a Thasian list of theoroi (LG, xii. 8, 278 C) must be a son of the famous boxer and paneratiast.31 Among the Cyclades Delos takes the foremost place. though few new Delian texts have been published during the year under review. M. Lacroix and G. Glotz continue 82 their comments upon various accounts published in I.G. xi. 2, and A. Wilhelm restores the text of xi. 4. 1208 and thinks that this, together with 1206 and 1207, may belong to a considerable group of bases of statues portraying the legendary rulers of the region of Teuthminia and members of the Pergamene royal house.88 The 'Nouvelles recherches sur la Salle Hypostyle' of R. Vallois and G. Poulsen 44 rely to some extent on epigraphical evidence, and contain in an appendix four extracts (two of them previously unpublished) relating to the construction of the grad & mode the Hogideiws. M. Lacroix's article 85 on the architects and contractors who worked at Delos between 314 and 240 B.C. is based entirely upon the materials afforded by I.G. xi. 2, and S. Molinier's work 5s on the 'sacred houses' at Delos from 314 to 166 B.C., discussing in turn the houses and their tenants, the leases, and the relation of these houses to the property of the god, is also founded exclusively upon published and unpublished inscriptions.⁸⁷ Some corrections have been made by A. Wilhelm in the list of Tenian eponymous archons (Musée Belge, xv. 253 fl.) 88 and an archaic epitaph from Naxos has been published by F. von Hiller, 80 who has also given us three new texts of Thera, 90 the most interesting of which is the testament (ca. 177-162 a.c.) of Doroclidus, a member of the same family as the famous Epicteta. W. Bannier maintains, against A. Elter, that in the oldest extant inscription of Melos (I.G. xii. 3. 1075) we must read γρόφων as a participle and not Γρόφων, a proper name, bt

The Italian excavations at Gortyn in CRETE have laid bare four seventh-

[&]quot;Apx. Fo. 1914, 198 ff.

to Th. 1918, 210 H 214 J.; Berl. phil. Wach. xxxiv. 1600; cf. 4vel. dun xxix 124 (Cyme).

W Ath Man, angin. 184 f.

^{**} Revl. phil. Work, Exxiv. 894.

P C.R. Acad. Inner, 1914, 276 ff.

[&]quot; Cf. Em. Ep. ii. 251 f.

¹¹ Hermon, 1, 319 L; of. Acid. Am. 8212. 165 f.

^{*} Res. Et. Gr. xxvii. 138 ff.

[&]quot; Att. Mill. exsis, 148 ff.; of, 188.

[&]quot; Exploration urchéologique de Delos. Fam.

^{2 (}complement), Paris (Pontemonia). 80 Rev. Philat. 222viii. 303 ff.

[&]quot; Les Maisons Sacrées' de Délos, Paris

⁽Alcun): 5 fr.

er For Delon are also Rev. Et. Am. avi. 889 f.; Arch. Am. mix. 153 f.

[&]quot; 'Apx. 'Ep. 1914, 87 f.

^{# 16- 138} F

^{= 16, 131} ff.

⁴⁴ Bert. phil. Work, xxxiv, 1487 ff.

century acclamations for members of the Imperial family of Constantinople Heraclius the Great, his daughter Epiphania Eudocia, and his son Constantine), sixteen fragments of a late building-inscription, and an honorary inscription for Aulus Lareins Lepidus Sulpicianus, whose cursus is preserved in C.I.L. x, 6659.22 Of greater interest is J. Hatzidakes' discovery of one large and five small fragments of a treaty between Tylissus and Cnessus, mediated by Argos about the middle of the fifth century R.C., whether before or after the treaty contained in B.C.H. xxxiv. 331 ff., xxxvii. 279 ff. we cannot determine. 153 From Genna a batch of eight epitaphs, now in the Museum at Retimo, has been published 16 by E.N. Petroulakis, who has also given us ten inscriptions from Eleutherna, amongst which the archaic fragments (Nos. 1-4) and the public document (No. 10) deserve more accurate copying

and a more careful study.86

Turning to the islands of the eastern Aegean, we may first note the useful list,36 drawn up by P. Papageorgiou, of the inscriptions of Lessos published since the appearance of LG. xii. 2 and of the author's Unedierte Inschriften von Mytilene. Nine further texts are here published, bringing the total number for the island up to 682, and notes are added 97 upon numerous texts already known. A. Wilhelm discusses " the restoration of two passages in I.G. xii 2. 16, while O. Viedebantt subjects to a fresh scrutiny by the building-inscription I.G. xii. 2 10, which, like Lattermann, he considers as relating to the construction of the temple of Messa, near Pyrrha, excavated by R. Keldewey; T. Kehrhahn's article on the Lesbian dialect is not yet necessible to me. 100 An honorary inscription found in the island of Nisyrus was probably brought there from Cuidus, int but Lerus is represented by an epitaph of the third century after Christ,102 Attention has already been drawn to the publication of a number of texts belonging to this and the neighbouring islands in the Inscriptiones Graecue ad res Rimanas perti-From the island of Ruodes six new inscriptions have been published; tea F. von Hiller adds 104 the names of several priests of Helios to the list drawn up by F. Bleckmann in Klio xii. 249 ff., and H. Grégoire comments 100 on two passages of the Lindian Chronicle, which has been re-edited in a convenient form and for a moderate cost, by C. Blinkenberg. 198

Asia Minor -E. Herbig has examined the linguistic parallels and similarities between the Anatolian and the Etruscan language as a basis for the further study of their affinities,107 and the present writer has published a

¹⁰ Aun. S. d. d. t. 180 ff., 377 ff.; of. Arch. dist, xxix, 147 f.

[&]quot;Apx. To 1914, 94 ff.

^{14 /6, 222} ff.

m 15, 225 ft

[₩] Jb. 1913, 220 ff.

^{8:} Ib. 225 H.

W.76, 1914, 81 ff.

⁼ Herman, 1, 24 ft.

¹⁰⁰ Zum leshischen Dialekt in Zeitschrift f.

⁻cryl Syruthformating, xivi.

¹⁰⁰ Apx. Eq. 1914, 8,

¹⁰⁰ Ann. S. A. A. L 368.

^{= 75 864} ft, 367 ft; Apx 'Ep. 1914, 120

¹⁰⁴ KLio, xiv. 388 f.

¹⁰ Work klass. Phil. 1913, 1298 ff.

ms Dis limbische Tempelehrenik, Benn (Marens und Webery: 1 M. 50.

¹⁶⁰ Kleinaciatisch-ermskische Namengleichungen 'in Stab. Manchen, 1914, 2.

series of brief notes on some misunderstood inscriptions of Asia Minor. 168 A. note by A. Wilhelm 109 on the inscription containing a fragment of a history of Pergamum (Dittenb, O.G.I. 264) is the sole contribution made during the year to the enigraphy of that city. Ionta is somewhat better represented. T. Stein has examined the morphology of the Prienian inscriptions 110 and M. Hasluck the cult of Dionysus at Smyrna,111 while several texts from the Milesian Delphinium have called forth comment and discussion, 112 and Wilhelm has pointed out that the famous document relating to a bakers' strike does not really come, as is usually supposed, from Magnesia. 113 J. Keil and A. von Premerstein have published an account " of a third journey undertaken by them in Lydia and the neighbouring portion of Ionia, but this is not yet accessible to me. W. H. Buckler and D. M. Robinson continue their exhaustive publication of the texts discovered at Sardis, 318 giving us an inscription of 119 lines, comprising a group of documents relating to the honours paid to a certain Menogenes. At the head stands the title To somer των έπι της 'Ασίας Ελλήνων και ο δημος ο Σαρδιανών και ή γερουσία έτίμησαν Μηνογένην Ίσιδώρου του Μηνογένους τοις ύπογεγραμμένοις, and the ten documents which follow include three decrees of Sardis, two of the Sardian yepowoia, two of oi em vis 'Aoias Exampes, two letters addressed to Sardis by the president of the Asiatic κοινόν and a letter of Augustus thanking the Sardians for the embassy sent by them on the occasion of the coming of age of C. Caesar. The Lydian term savers, denoting a Sardian priestess, continues to give rise to discussion and conjecture.100 W. H. Buckler argues that the $\theta \epsilon \hat{a}$ Tookia referred to in inscriptions of Aphrodisms. (C.L.G. 2815) and Lampsacus (3642) must be Livia and not Julia Domna. 117 S. Reinach has published two further notes 118 on the epitaph of Abercius, bishop of Hierapolis in Phrygra, W. M. Ramsay has given us four unpublished epitaphs from Pisidia, now in Constantinople, one of them commemorating a standard-bearer and another a mercenary soldier, 119 while for Lycia we should note a further discussion of the 'thirteen gods' 125 and an explanation of the curious epithet ackanos found in a Lycian graveinscription.121 Far more important, however, is the collection of 177 inscriptions from southern Asia Minor, notably Pamphylla, published by R. Paribeni and P. Romanelli, in mostly for the first time though partly in corrected versions. Of these the most interesting are a bilingual honorary inscription of Adalia recording a cursus honorum (No. 5), decrees of Perge

Ulass. Rev. xxix, 1.ff,

¹⁰⁰ Ath, Mill, ranks, 156 if.

us Glotta, vi. 97 ff.

tii B.S.A. vix. 80 ff.

¹¹³ Ath. Mill. maxix. 186 ff.; Hermits, 1, 154 ff., 318 f.

III Ath Mill. XXXIX. 184.

⁴⁴⁴ Bericht über eine dritte Brise in Lydien n. den augrenzenden Gehieten Louiens, Vinnen (Holder).

¹¹⁵ Am. Jones, Arch, xviii. 321 ff.

¹¹⁰ Epo. Et. Anc. 181 438 E.; Rev. Ep. 11.

¹¹¹ Eer, Phil. xxxviii. 211 ft.

¹¹² C.R. Acad. June, 1914, 4624.; Eur. Arch. 2217, 338.

¹⁰⁰ Class. Rev. xxviii. 196 f.

¹²⁰ Her. Ep. St. 316 ff.

III Class. Bee, xxviii, 197 f.

m Mon. Ant. xxiii. 1 ff.

and Seleucia in honour of a doctor who, besides other services, delivered a course of medical lectures in the gymnasium at Perge (48), a decree of Aspendus granting citizenship and εὐεργεσία to the 'Pamphylians, Lycians, Cretans, Greeks, and Pisidians' who had rendered services to the state and to Ptolemy, valuable for the light it throws on the constitution of Aspendus and as bearing out the statements of Theocritus (xvii. 88), the marmor Adulitanum (C.I.G. 5127) and Polybius (v. 34, 6) that the Ptolemaic rule extended at some time to Pamphylia (83), a lex sepulchri of a collegium funeraticium (113) and an inscription in honour of a citizen of Iotape and his wife (124). A. Brinkmann has suggested a more satisfactory restoration in the famous inscription of King Antiochus I. of Commagene on the Nemrud Dagh (Dittenb, O.G.I. 383) in.

E. Sittig—a bilingual (in Greek and an unknown language expressed in the Cyprian syllabic script) of the second half of the fourth century B.C., set up by Amathus in honour of a certain Ariston, 120 a third-century dedication to Zeòs ὁρομπατας (=ὁρειβάτης) from the same place, 120 and a fragment from Lapethus, of 50-100 a.D., referring to the 'martyr Thekla' J. L. Myres' catalogue of the Cesnola Collection in the Metropolitan Museum at New York 120 contains a series of epigraphical appendices, one of which (pp. 525 ff.) comprises ninety-nine texts inscribed in Cyprian characters alone and two in Greek and Cyprian characters side by side, while another (pp. 547 ff.) includes seventy-four Greek inscriptions upon stone and sixteen

upon earthenware, a gem, and a leaden amphora-

Outlying Regions.—At Merida in Spain an inscribed gold ring has come to light, and the excavations at Ampurias (Emporia) have produced two grafiti and two stamped amphora-handles. (Emporia) have produced two grafiti and two stamped amphora-handles. (Emporia) and an inscription on the base of an imperial statue has been uncarthed at Narbonne. In Italy a few epitaphs have been found at Rome, and various minor discoveries (stamped amphora-handles, grafiti, etc.) have been made at Pompeii. F. Bücheler's discussion of the Pompeian wall-inscriptions has been reprinted in his Kleine Schriften. (12) to G. de Sanctis we owe some additional comments on the inscription of the Artemisii at Naples, while at Cumae the excavations of E. Gabrici have brought to light a considerable

In No. 113 I would read backsyme (l. 6) imited of the six as - Adyer: in No. 148 the silitors are wrong, I think, in altering soposessores to

Xa > peragosto.
114 Rh. Mm lxiz. 585 f.

^{□ &#}x27;Aρχ, 'Eφ. 1914, 1 f. □ Herman, L 158 f.

^{15 &#}x27;Aρχ, 'Εφ, 1916, 2 f.

¹²⁸ Handbook of the Cosmola Collection of Antiqualies from Caprins, New York (Metropolitan Museum of Art).

¹⁰ Arch Anz. xxix 864, 887.

¹⁰⁰ Res. Et. Auc. xvi. 407; C.R. Acad. Inser. 1914, 461.

iii Rev. Et. Ann. xvi. 408 f.

¹⁰ C.R. Acad. Inver. 1914, 223 ff.; Rev. Arch. xxiv, 370.

¹³³ Notion, 1914, 377, 398, 296, 398; Bull. Comm., Arch. xIII, 206.

³³v Nobine, 1914, 110 f. 157 f. 200.

mi Kleine Schriften i. Leipzig (Teubner) : 24 M.; pp. 82 ff. 22 Lev. Ep. ii. 306 ff.

number of inscribed vases and given rise to a discussion, accompanied by admirable photographic reproductions, of texts previously known in The πρῶσις ἐπὶ λύσει engraved on a silver plate recently discovered at Aidone in SICILY, perhaps the ancient Herbita, has been made the subject of a detailed examination by D. Comparetti. The Greek inscriptions of Tunista are: not of special importance, pp nor have any fresh discoveries been made at CYRENE, 140 while those from Egypt may be passed over here as they are summarised by the present writer in the Bibliography published every April in the Journal of Egyptian Archaeology. 'The inscriptions found in Syria and Palestine, for the most part epitaphs, include a memorial inscription at Sala, 10 and texts on mosaics at Jerusalem 111 and near Medaba 143 and on a tomb-chamber at Beit Jihrin, midway between Jerusalem and Gaza, commemorating members of the Sidonian colony known to us from the peighbouring tamb of Marisha,144 The survey of the wilderness of Zin undertaken by C. L. Woolley and T. E. Lawrence for the Palestine Exploration Fund resulted in the discovery of twelve inscriptions already known and thirty-five hitherto unpublished from Beersheba, Elusa, Rehoboth, and Eboda, of which those bearing a date belong with one exception to the fifth or the sixth century after Christ. In The section of the report of the Princeton University Expeditions to Syria which deals with the Djebel Halakah includes fifty enigraphical texts, twelve of them previously published; most of these also date from the fifth or sixth century, though four (Nos. 1106, 1111, 1129, 1152) go back to the second century, and one (1144) bears the date 73/4 A.D.140 Notes on inscriptions from Palestine and the land to the east of Jordan are contributed by J. Offord 147 and R. E. Brimnow, 120 From southern Russia there is nothing which calls for special attention, to but in the course of a discussion of the names Didas and Dizazelmis, the latter of which belongs to Thrace, P. Perdrizet publishes 150 a grave-stele from Pravista, S.E. of Mount Pangaeus, which contains the name, and three Greek votives have been discovered at Augusta Traiana (Stara Zagora) in BULGARIA, 151

Marcus N. Ton.

¹⁼ Mon. Ant. 2211, 440 ft.

¹² C.R. Acad. Inser. 1914, 211 L 583 ff., 697 ff.; McLanges, xxxiv, 283 ff.; Bull. Arch. Open. True. Hist. 1915, xxxv, zivil. ff.

¹⁰ Ans. S.A.A. L 161 E.; Souli Bomani, L 241 E.; cf. Journ, Sac. 1916, 578 f.

in Zind Pal-Ver, anxil. 118 f.

¹⁴ Ec. Bibl. vi. 227 ff.

¹st Am. Journ. Arch. xviii. 492 ff.

¹⁰⁰ H. xix. 63 fl.; of, No. d. Pol., Per.

EXXVII. 132, 139 H.

¹⁶ Pat. Expl. Fund Annual, 46, 1914-15, pp. 138 ff.

¹⁴ Princelos Univ. Arch. Expeditions in Sprin, Div. III. Section B. Patt 5, Leyden (Brill).

^{**} Pal. Espl. Fund Q.S. 1915, 91 f.

in Za & Pal Fer, arryil 151 f.

¹⁰ dech. dun xxix. 259, 274 H.

¹⁵⁰ Ren. Et. Anc. avt. 390 ff.

in Arch Am. 1xix 422.

NOTICES OF BOOKS.

The Tomb of the Double Axes and Associated Group, and Pillar Rooms and Ritual Vessels of the 'Little Palace' at Knossos. By Sm Annua Evans, Litt.D., F.R.S., F.S.A. From Archaeologia, vol. ixv. Pp. 94, 7 Plates and 97 Figs. Lendon Quaritch, 1914.

in this contribution to Archaeologia, Sir Arthur Evans describes the remarkable finds of his tomb-excavations near Knossos in 1909, and the results of his digging of the 'Little Palace' at Knossos which began some years earlier. In the work Sir Arthur was assisted by Dr. Duncan Mackenzie.

The tomb-discovery in 1900 was a sequel to that of the 'Royal Tomb' at Isopata, described in Archaeologic of 1906 (vol. lix.). Thanks in part to the floir of Gregori Antoniou, the Cypriote tomb-digger who has contributed so much to the success of various excavations in the Levant, several important new tombe rewarded Sir Arthur's search in 1900 and 1910 in the same neighbourhood. The Tomb of the Double Axes is the most important, as showing as a totally new style of tomb-making. resembling a living-house, with stone bonches round the sales, no doubt for the convenience of those who may have unale periodical visits to the tomb to perform funeral rites. The analogy with the arrangements of Etruscan tumbs is very evident, and indicates a new direction for archaeological research as regards Cretan matters. It is indeed by no means unlikely that a close racial connexion between the Etruscans and the prac-Hellenic Aegeans may eventually be proved. The fact, too, that in the tomb two votive double-axes were found, and that the grave shaft is made in the shape of such an axeblade, is shown by Sir Arthur Evans to prove that the cult of the deity of the double-are descended also to the grave. 'Religious symbolism could hardly go further than this shaping of the sapulchral cell itself into the outline of the stered object. With the small shrine of the Double Axes near the head of the grave, the tomb was at the same time a funercal chapel, and it may well be that the beaches round the sides of the chamber were made use of for some memorial function in which the whole family partook. On such an occasion, in accordance with the central idea of the Minoan Cult, the essence of the divinity might by due ritual acts be infused into the visible symbols, and, even in the shades, the direct guardianship of the Great Mother be thus ensured to the warrior resting in his emblematic bod. May some such memorial service have been renewed after an interval of time ! The evidence . . . of the deliberate re-opening and re-closing of the tomb at a subsequent date is consistent with this possibility. The relics themselves, moreover, are of a homogeneous and strictly contemporary character; which forbide the assumption that this re-opening was for the purposes of a second interment. The painted vases belong to the same " set," They are the clearly marked products of a definite stage of the second Late Minous Period, and are characteristic of the epoch preceding the great catastrophe of the Palace at Knesson' (p. 56).

In this tomb was found a curious pottery vase with a breast-shaped lid and double colled handles, which is paralleled in another tomb, that 'of the Polychrome Vases,' by the coloured vessels which give it its mans. These are decorated with polychrome 272

designs in fugitive matt colour, blue, black, and two shades of red, on a plaster base: freece-painting, in fact, of the same kind as that on the walls of the palaces. The vases have no lids. Their polychrome decoration is an interesting survival into Late Minoan times of the polychrome 'Kamarais' tradition of the Middle Minoan Age, for ritual and funerary purposes only. We may almost compare the Athenian finerary telephon of later days, with their equally fugitive colour, intended only for the tomb. Another tomb, that 'of the Macebearer,' is so-called from the discovery on it of an interesting ceremonial mace-head of siliceous breezia.

The 'Little Palace' is situated to the west of the modern road to Arkhanis, among the olive-trees, close to the 'Villa Ariadne.' An excavation leads deep into the hillside, and one can see that the work has been an ardinous and expensive one. The most interesting points with regard to it specially discussed by its discoverer in this publication are the remarkable casts in the burnt wall-plaster of three wooden pillars with funcil decoration, the use of the single-pillar rooms, the discovery of a stone base for a gigantic double-axe, and of a curious prochess of non-Minoan form with relief decoration, and finally the magnificent bull's head rhyton of mland black steatite which is one of the chief treasures of the Candia Museum, and of which a reproduction by M. Gillieron is exhibited in the First Vase Room of the British Museum.

The wooden pillars are remarkable, in that their fluting was in relief 'like that of the Egyptian columns unitating clustered papyrus-stems, and that they did not taper downwards like other Minoan round pillars, but were straight from capital to base. On the religious significance of the single-pillar rooms and on the gigantic double-axes Sir Arthur Evans has various things of importance to add to his previous remarks on these interesting features of Minoan religion. The buil's head rhyton he describes con amore, as it deserves. He shows us the beauty and rual magnificence of its style, the treatment of the lair, which 'recalls the treatment of the hair in the Age of Myron,' the extraordinary truth to nature in the modelling and details, and above all the eplendid workmanship of the one remaining eye. 'The lens of this consisted of rock-crystal, on the slightly hollowed lower surface of which are painted the pupil and iris. The pupil is a brilliant searlet, the iris black, the rest of the corms white. The crystal setting is inserted in a border of red stone resembling jusper, which surrounds the white field of the eye like the rims of bloodshot eyelids. To add to the effect, the crystal lans of the eyes both illuminates and magnifies the bright red pupils and imparts to the whole an almost startling impression of nery life (p. 82). Oddly enough, on the base, the artist had idly cut a small graffito sketch of a bull's head.

The comparison of this masterpiece of Cretan art with the aliver bull's head rhyton with the gold resette, found in one of the shaft-graves of Mycenas, leads Sir Arthur into further comparisons with other rhyto of the same type in pottery and other materials, the bull's head rhyton from Gournia found by Mrs. Boyd-Hawes, the splendia rhyto of the precious metals borne by the Keftian ambassadors to Thothmes III. and a very interesting pottery bull's head rhyton found at Aintab in Syria. This last is a mative imitation of the Minoan form. The 'horse-headed' fatence rhyton from Enkomi, in the British Museum, is of the later 'classical' form, though of Minoan date. The best Sir Arthur Evans thinks to be that of an assembler than a horse. Illustrations of other vessels of the same therismorphic type are given.

Handbook of the Ceenola Collection of Antiquities from Cyprus. By Prof. J. L. Mynes. New York: the Metropolitan Museum of Art, 1914. Pp. iv. + 506: illustrated.

Professor Myres is our chief authority on Cyprian antiquities, and to his hands alone could the complete cataloguing of the Cesnola Collection be entrusted. General di Cesnola, in spate of his many and manifest failings as an archaeologist, brought back to

America an unrivalled collection of Cyprism autiquities. It is regrettable that, for reasons that need only be lightly touched upon now, a cloud of uncertainty rested upon the collection for so many years. One always hoped that in time Prof. Myres would be able to undertake the sifting and ordering of the collection, and its real scientific value would be made apparent. This hope has now been fulfilled, as the "Cosnola question" is settled, by no means to the disadvantage of the gallant old General, whose sterling worth as curator of the New York Massoum larguly atoms for any archaeological biches of which he may have been guilty in Cyprus. Most of the antiquities which in the leightles, when we know very little shout the matter, were considered to be forgeries, are nothing of the kind. The only real mystery is the "Treasure of Curima"; that can never be cleared up, and we need say no more about it.

Prof. Myres describes the objects of the collection very fully, illustrates those admirably on the rather small scale demanded by the size of the book, and gives an authorizative introduction on the history of the Callection and Ancient Cyprus, its History and Culture. The latter will long remain the best short and succinct account

of the dayslopment of ancient civilization in Cyprus.

The collection contains very complete series of most of the known kinds of Cyprian antiquities, with the exception of those of the Mycenasan colonists of the fourteenth century a.c. (though the rim and handle of a Mycenasan bronze cauldron, illustrated on p. 479, and a tripod of a well-known Dipylon form, but apparently Mycenasan here (p. 478), are notable objects). For Cypro Mycenasan antiquities the British Masseum collection naturally stands unrivalled. New York has a good number of Oriental antiquities found in Cyprus, such as Rabylonian cylinder scale, which Prof. Myros describes and illustrates. There are also a good many small Egyptian objects, the Cyprian procunance of which does not seem to be always certain. We notice that Prof. Myros makes a slip in describing some small Egyptian delities or figures as of 'the crocodile-god. Thursis' (pp. 452-3). We must remind him that Thursis was not a god, but a goddless, and that she was not a procedile-goddless (there was none), but is always represented as a hippopotanous. We are left in doubt whether the figures referred to by Prof. Myres are of Sebek (Souchos), the crocodile-god, or of Thursis, the hippopotamus goddless.

The class of the collection is the first series of vessels of gold, effect, and gibbed bronze which it contains. To these Prof. Myros devotes a special metion, and in his description puts very clearly the difference in age which is known to exist between the different specimens of the famous Cyprian engraved mutal bowls which exist in this and other collections. We now know better that to lump all the collects together and say they all belong to one period, dated preferably (owing to some unaccountable familiar prejudice, born of ignorance, against early dates) as late as they possibly can be, and called indiscriminately. Phoenician. Some are Phoenician, no doubt, and late, but others belong to the period of the Egyptian XVIIIth dynasty, and are many contains older than the former. However, this is a matter of common knowledge now among those who have any real knowledge of anything anterior to the sixth country i.e.; and we need not have upon it. It is little use flogging doad borses. Prof. Myres says the final

word on the subject.

And, inteed, in this catalogue he says the final word on the subject of Cyprian antiquities generally, so far as our present knowledge goes. This book will be an indispensable of account to all general students who desire to acquire a knowledge of this subject, and a useful book of reference for those who deal with it in greater detail. We congratulate the author and the Museum on its appearance.

H. II.

Les Sculptures et la Restauration du Temple d'Assos en Troade, By F. Santiaux. Paris : Ernest Loronx, 1915. Pp. 160, with 59 Text-illustrations.

There are few immumouts of Greek art conspicuous in the records of early invellers and of minetoenth century excavators, of which definite information is so macoessible, as of the Temple of Assoc; and; perhaps as the result of this there are few buildings concerning which name striking divergencies of opinion have been apparent. It has been dated in aura to every conservable period from Mycenaeun times to the late fifth essurery are. Its sculptural decorations, famous for their singularity in style and arrangement, have only been recovered in part, and the task of sindying the remainis complicated by the most unfortunate distribution forced on them by klassified accident, so that portions of one and the same slab are new found in Paris, Boston, and Constantinople. Equally unfortunate has been the history of the publication of the American exercising in 1831-3. Both volumes are to-day unobtainable; the second, dealing with the Tample and its sculptures, appeared in 1898, fiftuen years after the excutations, but as M. Sartiaux observes, has remained almost unknown, enclosedly smough, for it is the source of much information, and Clarke's suggested restoration is by no means utterly impossible. One may conjecture that this neglect is due to the untenable theory of date which the Americans uphold. A larger and illustrated publication, announced by the American school in 1897, never got beyond the first of five parts.

M Seriaar has filled the gap very thoroughly. He has compiled for the lires time a complete satalogue, with outline illustrations, of all the scalpture fragments and proposes for the frieze a restoration more in accord with the existing remains than that of Clarke. Of the metopes the fragments are too scanty to permit reconstruction. He discusses at length the question of date and combinates that temple and sculptures belong to the period of archive are, between 150 and 530 n.c. A full hibbliography and a table of dimensions

add to the utility of the work.

The Metropolitan Museum of Art, New York. Greek, Etruscan and Roman Bronnes. By Gissia M. A. Rustres, Litt D. New York: 1915. Sco.

No class of mominmum is of more importance for the progress of art srchaudogy than Greek bronzes. They are originals, and unrestored, and many of them come from a good period of art. The Americans came late into the field as suffective of works of ancient art, but they have shown their usual energy, and they command unlimited resources; so that now the unseems of Boston and New York contain a variety of treasures which will compare with these of any of the museums of Europe, except the very great mes. Miss Richter's catalogue is quite up-to-date; the descriptions careful and full enough, though she does not smulate the mirans accuracy of such catalogues as Amulung. The collection metallic several examples of the first importance from the point of riew of ext. Such are the womlerful chariet of word covered with bronze reponse plates found at Mouteleone ; the very pleasing life-size figure of a boy wearing a cleak, of the first century a.o.; and the colessal portrait statue of a Roman, the identification of which is doubtful, but which is regarded in the text as a portrait of Tentonianus Gallia. There are also important unity statusties of athletes, engraved mirrors, and so forth. The second part of the work contains a description of bronze implements and urunails. There is a very breat but sensible miroduction and a lubinography. Every object described is represented by one or more cuts in the text. this is of course an assential point in any modern catalogue. One cannot criticise a catalogue of this kind imless one has had an opportunity of comparing it with the objects. But it is clear that Mrss Richter knows her luminess.

Select Bronzes, Greek. Roman and Etruscan, in the British Museum. By H. B. Waltess. London: The Truscos of the British Museum, 1915.

This is a series of seventy-three plates, giving representations of some of the most remarkable bronzes in the British Museum, with bring descriptions. When Mr Walters' catalogue of bronzes was published, several of the principal examples were left mullustrated with a view to the present volume.

The plates are photogravures by the Vandyck Printers; they give the surface and texture of the bronzes admirably. The descriptions are brief and evidently intended for the amateur and art student, while the archaeologist is refured to the more learned Catalogue. The work makes one feel for the hundre-lith time the astonishing richness of the National Collection. The appeal of the book to well-to-do amateurs is scarcely timely; but probably the work was well forward when the present distress began. Surely the next work incumbent on the officials of the Greek and Roman Department is an accurate presentment of all the remains of the Manadeum, which have never been satisfactorily published.

Codex B and its Allies: a Study and an Indictment. By H. C. Hoskins.

2 Parts: pp. svi. + 407, ii + 412 Part II. (in separate vol.) has the sub-litle:
Chiefly concerning N. but covering three thousand differences between N and B in
the Four Gospels, with the evidence supporting each side, including the new
manuscript evidence collected by von Seden, and the collateral readings of other
important authorities. London: B. Quaritoh, 1914.

The epoch-making edition of the Greek Testament of Westcott and Hort has now hold the nold for a generation. The basis of their text was the codex Varicanus (B), of whose supreme excellence, apart from minor blemishes, the editors formed the highest opinion. How has their work stood the test of time? While the general principles hist down in their futroduction remain, in the eyes of critics best qualified to judge, for the most part unshaken, there has been a growing body of opinion that the merits of the B text may have been overratimated, that the 'neutrality' claimed for it is quasificable, that it may represent no more than an Alexandrian recurrence of the third century, and that greater weight should be attached to the rival 'Western' best, which by the end of the preceding century had obtained a wide currency. There was room, therefore, for a image rate statement of the present position, showing how far a departure from Hort's principles appears to be justified by recent research and discovery, and for a detailed study of the text of the Codex Vatinanua in all its bearings.

Mr. Hosking's two bulky volumes of some 900 pages unforcumately cannot be said to supply the. The author, who has entablished a regulation as an imbefatigable and supplied of the author, who has entablished a regulation as an imbefatigable and course collabor of MSS and Versions, has in this and a previous volume some forward with a new theory as to the gaussis of the New Testament text, or rather of the text of the four Gospels. This larger and nowe ambitions task his proved beyond his powers. He has not attempted to ment and contribute one of Hisr's fundamental principles, and he has failed to assablish his own theories. Above all, he allowance critics and mars his work by the attitude of scathing contempt which he takes up tolerapis his distinguished predecessors and co-workers in the same field. Previous critics of the Westcort-Hors text, like the late Dr. Salmon, have contract with distingues to disagree with the conclusions of these master-workers. Mr. Heakier has no such samples and out-Bargers Eurgen in his withering indictment. This old book about a "Syriam" text!" (1/270) "this "Q" huminos: [1, 44, note), in such terms does he refer to theories which have now gained wide neceptances.

Mr. Hosker's own theory, we gather (we find it nowhers sectively dated in these pages), is that a polyglot copy of the Geopels (Greek, Latin, Syriac and Captic) existed in early times, and that the Greek text of at least some MSS has been largely unfluenced by the texts in the other languages. The B text, in particular has been affected in this way and, so far from being "neutral, is defaced by numerous supposed 'improvements'

of an "Alexandrian" type! "I re-affirm my belief," he writes (i. 7), "that a polygled text influenced & throughout. And I charge B with being the child of a Grasco-Lakin recension, and by its scribe or by its parent of being transmittedly influenced by a Capital recension or by a Grasco-salidie and a Grasco-boharric MS."

"A enterprisal answer count by soon! " to his "mulictment of B, such as Mr. Hoskier desiderates, would require almost an ample space as the author allows himself. Within the limits of a short nonce a few general observations are alone qualities. First, as to Mr. Hoskier's classification of instances. Hort never claimed that the text of B was impossible; the scribe was to a certain extent liable to the usual errors of his class. But Mr. Hoskier's lists include indiscriminately a mass of minor "clerical" arrors which might with advantage have been placed together apart from entired readings of real moment. Then, there are long lists without comment of readings which may be variously accounted for and having as clear connexion with the headings under which they are placed. Where comment is added, it too often takes the form of general assertion, or astorished question amorphorted by argument; exclamation marks are a poor stillstitute for solor reasoning. Agam, Mr. Hoskier fails to take account of alternative possibilities. He forgots that, as Hort reminds as (Introd., p. 25), buribes were moved by a much greater variety of impulse than is usually supposed. His outfook is limited to his mass of authorities, and he constantly puts forward as the only conceivable explanation of a reading a remote possibility of the influence of a Latin or Coptic version on the Grook text. Under the head of 'Latin' or 'Coptie sympathy' he does not sufficiently distinguish between (I) cases where B merely sides with the version and (2) came where it adopts or is alleged to adopt a Letin or Coptic expression foreign to the Greek language. As regards cases of the former type, Mr. Hoskier, we admit, demonstrates the existence of a close and interesting connexion in certain parts of the Gospels netween the text of B and that of the Egyptian versions. This, however, constitutes no proof of Coptic influence on cod. B, and may more easily lie explained by a parent type of text from which both are derived. To establish his theory some indubitable instances of the latter type, viz. actual Copticisms or Launisms in the Greek of md. B would be required. The few undances alleged are quite unconvincing. Thus, the author asks (t. 194) 'Have we sufficiently considered the frequent use of appear, in Mark for eλder of the symptists, perhaps growing out of the mork of a ternalator from the indeterminate Latin world in it of course impossible to consider this particular matance of the historic present apart from the others, such as Asyre, which abound in St. Mark. After verbs of speeds, the verbs which most commonly appear in the historic present in Greek documents of all periods are verbs of coming and going. Herodolin and Thucydides supply immunerable instances. The suggestion of the influence of an ambiguous rand is ridiculous. Reference to the Ptotomaic papyri would have shown Mr. Howkier that the writing of es for as began very early, and that the suggestion (i. 238) that Toofissioners (pro. -c.) arress out of an mileterminate operatures is highly improbable. We see no more reason to detect Coptic influence (i. 20, 86, etc.) in the thoroughly Greak position of the dependent personal pronoun in phrases like airm rus akine, of the of oddonnai. The final count in our 'indictment' of Mr. Hoskier is a defective acquimatume with Greek grammar, especially of the N.T. period. He makes much of the historic present, which he considers to have been becomed by the Alexandrian School and B, but his a very hazy idea of what is meant by it; his instances inclinic e.g. Sea rouve keyw tone (t. 43) and at and see in Plantine dialogue (135 note), where of course the present in unt a substitute for a past termo. The 'historic imperfect' of which he speaks is not, we think, a term recognized by the grammariana. Other instances might be sited.

We would commend to Mr. Hoskier's attention a reading in which B stands practically alone, and even Hort hesitated to follow it, spers six element, Luke xiv. 32. The phrase is a Hebraium borrowed from the LXX, with which the Evangelist was intimately familiar, and the B text is undoubtedly original.

A History of Persia. By Lieux-Col. P. M. Sykes, C.M.G., C.I.E. In two volumes. Pp. xxvi + 544 and xxii + 565. With Maps and Illustrations. Macmillan and Co., 1915.

This is an attractive work, and the fact that its author, from extensive traval and long revidence in Poesia, knows the conditions of life there more thoroughly than is usual for anyone of European birth will lend it permanent value. Colonel Sykes' previous works and articles have thrown light on duariots of Persia for from the besten track, and to a great extent numapped and unexplored; they have also done much to familiarize readers in this country with the enstones and peculiarities of a people among whom he has spent so many years of official life upon the best of terms. It was but natural that he should gradually have formed the ambition to write a comprehensive history of Persia that should be self-contained and complete. He lays no claim to original research for any of the numerous periods embraced within it; and, indeed, since much of it was, an we gather, written in Persia itself, it would have been difficult, if not impossible, to probe very deeply into sources available only to a student who should have constant access to at least one of the great libraries of Europe. When we have said that, we have done with criticism, and may include in the far more congenial task of warmly recommending the book, with its vival descriptions and numerous illustrations, to the attention of these who would learn semething of the country which for a time threatened the development of Western civilization and was only defeated by the horsom of Greece.

Colonel Sykes is fully alive to this aspect of the great drains, which the name of Person must always call up in the minds of those whose studies and interests have caused them to risw the struggle from the Western standpoint. From the special advantages he has enjoyed, he has been enabled, as he justly claims, to acquire the Persian point of view, and he has here furnished the reader with a very comprehensive picture of the country and its fortunes, not only during that eccutful century and a half, but throughout the long course of its earlier and subsequent history. Some idea of the ground covered by the volumes may be gathered from the fact that the first opens with the early lustory of Elam at the beginning of the third millennium and the second carries its narrative down to the summoning of the National Assembly of Persia and the signing of the Constitution some nine years ago. There can be no doubt that they do supply a want and will serve as a handy work of reference, while the half-tone plates and outline Illustrations scattered lavishly throughout their pages give in themselves a very good idea. of the development of Persian art and of the main features of the country. Their author to be congratulated on producing a very striking memorial of his twenty-one years of service in a land which for a time came within the European horizon, and has always played a great part in the changing relations of the near and the far East.

The Ancient East. By D. G. Housern. Home University Library of Modern Knowledge. Pp. viii + 256. London: Williams and Norgate, 1914. In

The editors of the Home University Library have been really successful in their choice of contributors. In so many educational series of this character it has been thought sufficient to entries the separate sections to the hands of experts, without any reference to their varying expanities for explaining their subject to an audience other than that to which they are accustomed. This practice has led to the multiplication of little books, with none of the advantages and all the drawbacks of the scientific treatme. The restricted space of each volume has often caused the dry bence of history or science to be subjected to a still turther process of desirection, with the result that the unfortunate reader, who has been tempted by the great name on the title page or the small price on the cover, is arrengthened in his former conviction that, after all, history and science are not for him

This danger the Home University Library seems, so far as the present reviewer has

sampled its volumes, to have successfully avoided. The little books are written by more and scomen who can write and who have resilized that, for purpose of education, one suggestive fact is worth a heap of detail. A distinguished educationist, an acquaintance of the reviewer, who has purchased all the volumes has, if we may credit his own at styment, read thousall. We are far from following or even enjouring his example. But there is no doubt that the volumes do hang cognition in groups, the members of each of which approach a general subject from various sides. This is doubtless intentional, for in the later volumes the publishers have suggested groups, though sematimes perhaps in rather a mechanical way. If we had the placing of Mr. Hogarth's volume we should not hositate in assigning it to a group of four, such as were we asked for advice, we should recommend to anyone (for example, an intelligent sixth-form key or a hard in stead man of beauties) who happened to must to get an insight into attain history as a whole. The group would consist of Miss Newbiguin's Modern Geography, Dr. Marett's Jathreposions, Professor Myres' Drows of History, and Mr. Hogarth's new volume on The August Bart, to be read in the order given

The first would give him some notion of the effect of climate upon racial character and, generally, the influence of environment on man. The second would broaden his previous notions as to the scope of historical anguiry, and would give him an outline of human divisionment before the historical anguiry, and would give him an outline of human divisionment before the historical anguiry, and would give him an outline of human divisionment before the historical state of the term, can take up the tale. Professor Myres' book would discribe for him the rise of the great spilligations; and, finally, Mr. Hegarth's rolume would weave these converging strands together and show their class bearing on the periods of absairal history which may hithorte have appeared to him as a study spart. We centure to think that such a use of them volumes would give an intelligent reader a far better notion of the multy of history than the reading of many more ambitions works.

Of the four volumes we have unused Mr. Hogarth's must have been the most difficult to write, dealing as it does with the millermines that preceded our own era. But he has succeeded, in a rather striking way, in bringing out the main features of the great struggle between East and West, ending apparently in the latter's political victory, but, as Mr. Hogarth points out in his Epilogue, seemally laying the foundations for that more remarkable victory of an Eastern faith. There is much in Mr. Hogarth's volume which is worthy of study at the present insment when Hither Asia is again playing a part in the world's kissory.

A Handbook of Greek Sculpture. By F. A. Gamosen Litt.D. xxxii+601 pp. with 153 illustrations. London | Macmillan. 10s.

We walcome this new edition of Professor Gardner's work. The book has for long occupied a unique position among Histories of Grock Scalpfury because of its comprehensive range, plansant style and moderals size, three qualities not easy of combination. This was edition, subarged by about fifty pages and a couple of down illustrations, will easily maintain the place won by the older volume. Some idea of the new matter so skilffully grafted on to the old stock will bust be gained by a rountal of the mean important works which have been discovered since Professor Gardner flast wrote and of which illustrations are now given. In some cases the statues were in Minimum, but their worth had not been recognized. They include them, the Nazian Sphinx at Delphi, Colossial Apollo from Summe, Delphi Charlotteer, Frankfurt Athens (Myron), Terms Apollo, Atalanta from Teges, Dresden Manuad, Agina, Damophon's works, the Carigosto bronze, and an archaic bronze status of a boxer in the Terms Minseum. Rather remarkably, however, despite the meets on p. 235 and alsowhere, there seems to be no mention of the Ladovisi throne and its counterpart, while the magnificent bronze hasel of a boy from

Benoventum, new in the Leaver, soight well have found a place. In the valuable intro-

directory chapter, room has been unde for Lowy's doctrine of frontality.

Where so much is to proise it may be as well to notice some places where Prof. Gardner's conclusions seem unseemd, or at least, even in a professed Hamiltonk, to need amplification. (1) p. 17 and p. 151 . The technique of the Spiritan stellar is still regarded as due to the influence of wood carving. But the variy wood worker worked a log, not a bourd; the influence of the wood by technique must be sought in the xeatness shaped figures. See Dickins, Accopalis Manoum Catalogue, Intr. p. 12 (2) p. 119 and p. 175 Prof Gardner finds great difficulty in accepting Samos as the home of the group of works heafted by the dadication of Cheramyes which was found in Sames. Why nor, then, mention the cognit arguments by which Dicking maintains a Saxtan origin (A.C. p. 151), especially as his main argument, the Naxian Sphiux at Delphi, is now given a full pure Illustration (Fig. 15)? (S) p. 179 The three-bested measter is still called Typhon. despute his poscoful appearance. See A.C. p. 81. The point is of importance in view. of suggested restorations. On the whole, enough use does not seem to have been made of the Acceptable Museum Catalogue (Vol. L. 1912) in dealing with early Attic work. (A) p. 200. No mention is made of attempts to provide Aristogeiters with a suitable head, though the 'Pherceydes' is discussed on p. 237. As the latest claiment is the British Museum heria, one of Prof. Cardner's usoful footnotes might have given a reference to Schröder's article, Julio 1913, p. 26. Similar troutment might have been accorded the "Caucenest" bend of the same Museum (A. H. Smith, Cal. 1780) when dealing with the Delphia Chimiotser. (b) p. 264; We believe that the Delphia Chariotout is from the group recorded by Pausanias as didinated by the Cyronaeans. Pursiniss may have passed on an incurrect tradition about Amphion, but why does Prof. Gardner argue that "the date of Amphion" makes the mory impossible (p. 265, Note 117. Two orthog generations and not gover a very long period. (6) qt. 265, Note, por. 2: Calamia and the well known alter surely an architatic work, as, indeed, Kavvadha judged it years ago in the National Moseum Catalogue. (7) Coming to the fourth century s.c. : the section on Scopes, reinforced as it is by the Togom Atalanta, the Dresslen Macuad and the Medier head of Mulasgor, is very good. Perhaps hardly enough room is given to Praxitoles. The article by Svorones on the Mantinea reliefs (Day Athenry National Mrs 199, 179-236) might have been mentioned. We rejoice to find that Furrwangler's attribution of the egly "Euhouleus" houd to Praxiteies does not find favour (p. 231). (8) The Agina, of course, has revolutionized the sindy of Lymptes. So much so, that while Prof. Gardner rejects the Apoxyomenes as typical of this master, Wolfers rejects the Agras and rathins the Apoxyonemos Silvasoph, d. Bayer, Akid. 1913, p. 40). This might have been stated in p. 443, Note 1. (9) p. 478: Relief work w will luadequately treated, though references are given to the valuable work of Wickhoff and Waco. Why is it necessary to apologous, even slightly, for the Aphrodits of Melos (p. 527) and, so to speak, attempt to store a few points at her expense in favour of the Purthenon emilptures | (10) p. 561. We are glad that Prof. Gardner still believes in the British Museum bust of Julius Cassar. It should however, have been stated that some of the highest authorities regard it as a work of the eighteenth century. Will not some one undertake a fresh examination and, if pessalin, sottle the question ! Finally, we note a remarkable and, to our mind, serious emission. There seems to be no mantion made of the famous 'Sandal Binder,' a work, as Liwy has shown, of supreme imperiance in the history of plastic art. With line replicas in the Louvre and Lausdowne House, and the head in the British Mussum (A. H. Smith, 1785), this work surely merited both notice and illustration. The best summary is that to Arndt, filipp. Ny Carisberg, pp. 177-181.

The Greek Commonwealth. By A. E. Zousens. A Second Edition, revised.

It was easy to foretall the success of this work when it first appeared in 1912, and we congretalate Mr. Zimmern on the production of the second edition. Some errors of fact have been semoved, a few other alterations made, and a very useful map of Attica, showing the distribution of her various industries and the character of the soil, has been added.

A long review here is unnecessary, as the book has already been noticed at soine length in this journal (J.H.S. 1911, pp. 317-8). But is the parallel drawn on p. 344 between war in the old classical period and games in our own time at all exact? Is not Mr. Zimmern here equating all the city states of Greece to any single state of the modern world!

Catalogue of the Greek and Roman Lamps in the British Museum. By H. B. Warress. London: Trustess of the British Museum, 1914. Pp. xl + 240, with 4D Plates.

In his Catalogue of Greek and Roman Lamps Mr. Walters has added another useful and carefully prepared book to the excellent publications of the British Museum. The Museum collection commits of a large variety of lamps from different parts of the ancient world, and many of the specimens, both in fromm and pottery, mak among the finest examples known both for their arrhaeological and for their artistic value. Nothing is more neeful in a work of this description than good and plentiful illnetrations, and Mr. Walters has supply inifilled those requirements with over 200 drawings in the text and 37 plates of photographs. Students would do will to study carefully these excellent Illustrations, as much of mythological and archaeological value may be feared from the large variety of subjects upon decorated lamps. In the introduction there is a very comprehensive history of the lamp, but the author is perhaps too severs when he states that excevations have yielded no certain examples of early date in Egypt, as stone lamps have been found belonging to the 12th dynasty at Lahan, in the Labyrinth at Hawara and at Marghunch; also small bowls or dishes, evidently used as lamps of the floating wick variety, have been met with from pre-dynastic times onwards.

The most usuful portion of the book from the archaeologist's point of view is the series of types, which includes over a lumided examples, and it is only to be regretted that the early Christian forms and some other varieties that do not appear to be in the British Museum collection could not also have been included.

Mr. Walters has just forward a very good outline for the dating of lamps, which is mainly based on the works of Dr. Pressel and Herr Fink. The accurate daring of lamps is, however, not yet an accomplished fact, and in actual practice the dates given will probably need a certain amount of modification. For instance, it is difficult to believe that No. 1400, which is stated on p xvil to belong to the 2nd contrny n.c., is an early as that by mearly a century. It also hardly seems to come under the heading of the * Delphiniform * typo, which, Mr. Waltura states, derives its name from fin-like projections on the side, giving it a rough resemblance to a dalphin. Another reason for this title tmy also he stared, viz., that our some of the best examples of this type the projection itself actually takes the form of a dolphin. The author appears to accept Loescheke's statement that types 78-80 die out in the reign of Tiberius, but this date certainly seems to be too early, as several examples countr on the German Limes at such places as Camustatt, Heidenberg, Pfunz, str., that can is accely have been occupied before the closing years of the 1st century a.n. It may also be added that types 90-94 extend well into the 2nd century a.b., and that some of the best examples of types 95-101 may well halong to the second half of the lat century w.o., which probably accounts for the fact that the stamps of some posters who made this form also occur on types 78-94. Thusare, however, only small points, which with the help of this series of types will soon be definitely settled, and Mr. Walters is to be heartily congratulated on producing a most valuable work. J. P. B. F.

An Introduction to the Study of Prehistoric Art. By Execut A. Pankys, M.A. See, Pp. 349. 18 Plates (2 coloured) and 318 Illustrations in the Text. Lorginalis, Green and Co., 1915.

Three years age Mr. Speating traced the development of art from its beginning in pulseolithic times to its climax in Greece. Much the same ground is here gone over again by Mr. Parkyn, whose work is a compilation rather than an addition to knowledge Many will be glad to have in one volume a collection of illustrations of prehistoric remains, even though the bulk of them already figure in accessible publications; but the title leads one to expect more than this. The author has borrowed right and left, but has not aimed at paying a high rate of interest. With such a wealth of material it should have been possible to propound some theory of development, to emphasize points of contact, to point our ways of communication and account for the ups and downs of art in prehistorin times. Archaeological excerpts undoubtedly have their uses even upon from original investigation, but their artistic interest is for the most part secondary i and even an infroduction to the study of prohistoric art should invert the process and look at early remains from the arristic standpoint. However daring a treatment on those lines would at least be suggestive; but the guiding principle of the present work is contion. Neutrality in such a sphere is anything but heroic, and there are many opportunities for original treatment in a review of art (or even industry) from the Drift to Late Keltio times. For instance, the hint on p. 9 might have been alaborated with a view to finding the wigin of carring in the round, acknowledged to be the earliest form of art in the Cave period ; or again, the evolution of Late Keltie art from that of La Tène, and altimutely from Greek sources, might have been insisted on, without reviving antiquated notions. As a picture-gallery the book will no doubt appeal to a large circle, but readers of the text will more that the proof-reading has been inadequate, expecially in regard to foreign words; infinitives are split in twain, and Fart geodoise will give our Allies pause.

The Golden Bough. Third Edition. By Sm James Frazen. London: Macmillan and Co., 1911-15.

The Golden Bough now lies before us in its final form; the two volumes of 1800 can scarcely be recognized in the twelve which make up the third edition in its seven parts: The Magic Art and the Evolution of Kings, Taboo and the Perils of the Soul; The Dying God.; Adonis, Attis, Osiris; Spirits of the Corn and of the Wild; The Scapegoat ; and Balder the Beautiful, with a final volume of index and bibliography With the alteration of size the work has changed in large measure its character; the original scan essentially a brilliant usery on the nature of early conceptions of duity and on the theory of sacrifice: In its present shape it has become an encyclopa-dic treatise on felk-lore. This, indeed, is probably the characteristic which appears to the author of the greatest importance, for there are many traces that he has coased to hold his former theories with the vigour which he showed in the first edition, and that he cares more for the incidental matter introduced than for the amin theory which it is proposed to establish. Nor in this estimate of his work is Sir James Frazer at fault; though in crudition and scholarship he cannot vie with J. Grimm, though his indubtedness to Manufardt and others lessens his claims to originality, and though at times he tends to become profix, nevertheless he has great stores of knowledge derived from while roading, and what is far more important he processes in a really high degree the power of seiting forth in an interesting and sometimes even fascinating form both the materials on which he bases his speculations and the speculations themselves. Hence it is cortain that to English-speaking scholars his works will for many years afford a rich storehome from which can be selected facts to support theories very different from those held by the anthor. Moreover, on many points of detail will be found expressions of view which are both movel and valuable:

But of the main theories of Sir James France, the priority of magic to religion and the annual slaying of a divine representative in order to promote the life of the hards, the crups and mun, and the use of these theories to explain Arraw religion, it is impossible to dany the appropriateness of the judgment of the learned and eminently judiciona Winaran in Kaligion and Kultus der Kaner (ed. 2, p. 248, n. 5) when he writes with reference to the vex Nemovement, "An die Cherlieferungen den arieinnichen Kaltes knuplen die weitnemwelfenden Untersuchungen von J. G. Frame an, aus denen es mit abor bei aller Bewunderung für das eminente Wisapu und die ansergewöhnliche Kombinationsgabe des Verfassers nicht möglich gewesen ist etwas wessutliches für das Variationline der romischen Religion im gewinnen." The cause of this failure to contribute anything salatantial to the solution of the problem of religion is to be found in the power of combination moted by Wassers Sir James Frame sees similarities, but cannot see differences - the mothed of patient discrimination of alaments has no attractions for him in his search for large and affective combination, and the result, on in tunvitable, in that the immense structures which he cars lack humbations and fall in rains as soon as their lasse are examined with due circumspection and care. Some of the worst of the errors which disferenced Sir J. Frame's work have, it is satisfactory to note, disappeared in the third edition ; the safe fone of Phny course to figure as the sixth month of the year (xt. 77), the dea that Plantas (On. ii 5, 25-9) refers to the prioris of Nemi as martal Jupitors (ii. 379) has been exorcised by Dr. Farnell, and it is collectived (ii. 211) that the simple facts of the Roman calendar dispess of the theory which connects the regification with the supposed killing of a victim at the Roman Saturnalia. But the fact that these important supports of his theories have turned out to be mere murakes of his own has not availed to imines the author to recommiter the theories which induced him so to miscutarpret facts, and even the superare by many competent minds of the mass of untemptic hypothesis which made up his attempt to bring the Crecilizion into the main line of his theories, has not persuaded him to do more than relegate his theory to an appendix (ix. 412-23), where it will remain as the best possible reductor ad absordant of the author's teneral

Within the limits of a revises it is only possible to indicate a few of the main disferts of the author's methods of developing his theories. Sir James Primer has found (1 p. ix.), not without surprise, as he has not studied the works of Hegel, that his own views on the relation of magic and religion have points of contact with those of the phile oppor-The coincidence might have warned the author to commiter how it came about that he was attering pronouncements on the origin of religion while having no claim to adequate philosophic training or knowledge. The origin of religion, it mannet be too often pointed our, is not a question for anthropology to decide : it is essentially a question of philosophy, and the most difficult of all questions, one for from solution, and one which science can no more solve than it can solve any other question of philosophy. In dealing with this question Hegel was acting strictly within his rights as a philosopher; his solution is not vary satisfactory, because his general philosophy is upon to serious criticism. but he was not attempting with alien materials to achieve a result which could not be reached in this way. On the same anthropological grounds Prof. W. Ralgeway has in his recent work. The Domas and Domastic Dencer of non-European Ruces, come to the perfectly decided conclusion that magic is not prior to religion, and that belief in spirits of the dead is, as Elard Hugo Meyer hald, the source of all religion. The opponents can never convince each other or anybody else, for they are seeking to attain results which the enture of the subject as treated by them demos. Sir James Frazer assures as (i. 220-43 | xi. 304-5) that the progress of thought has been from magic through religion to science, that man first believes in a certain established order of nature on which he can surely count and which he can manipulate for his own saids, and that he falls back on great savisible beings when he finds that both the order and the central are imaginary, and ascribes to those beings the far-reaching powers which he once arrogated to himself.

But where in his rast treatise is there the slightest avidence as opposed to more assertion additional for this constitution of the mind of primitive or other man.) The suggestion is

a pure petitio praccipio, based on the same fallacy which produced Echemorism.

A second fundamental error of the author is that expressed in his assertion (i.p. xi). " It can hardly be not often repeated, since it is not yet governily recognized, that in spite of their fragmentury character the popular apparatitions and customs of the persentry are by far the follows and mest trustworthy evidence we possess so to the princtive rainger of the Aryans. Indeed, the primitive Aryan, in all that regards his mental files and texture, in not extence. He is amongst us to this day " For Sir James Finzar all the evidence of estimology, all the theories of the origin of race and the mingling of peoples are as outling, and tales from the Decean are cited as eridence of Avyan views, oblivious of the fact that whatever admixtors of Aryan blood be allowed for north word findin in the early dawn of history, the proportion of such blood in the people of the couthern parts of India, the great majority of whom do not even speak an Aryon tougue, must be moutly munitosimal, and that folk tales are rather representative of the lower than of the higher classes of the population: We have here again a moral corrective in the views of Prof. Bidgeway, who goes to the apposite extreme and decides that the Atherenceds is not Aryan at all. On the other burder of Aryan language Sir J. Frazor treats the Celts as clearly Aryan, and his faith-Int follower, Canon MacCulloch," manually supports this view in the face of very formblable authority to the contrary. The problem of Aryan religion is in all human probability fiscilable, but it is perfectly clear that to declare that modern forespean or Indian folk here represents the religion of the Aryans in whose reality as a simple unitied people in early times Sir J. Frazor belowes - is to fly in the face of ethnology, and to do so without explanation or defence is not excused by the fact that the doctrine is borrowed wholesale from Mamhardt,

A third source of confusion closely akin to the second is one to the acceptance to explaining classical antiquity of the customs and beliefs of the aborigons of Australia and also where. The use of such syntence must be subject to the nest careful scrutiny if it is to be accepted as of value. When a practice remorded in classical antiquity is very similar to one recorded of some modern savage race them, if enquiry shows a plausible explanation of that aveage contour, it is legitimate to seek to apply that explanation to the classical usage, bearing however in mind that the same result may have different causes. But when from a savage contour, in itself of the greatest obscurity, a stage of accepty is conjectured into existence and then applied to the classical world, it becomes necessary to remember that so far is it from being true that mankind is essentially similar at all times and in all parts of the earth that history shows us the most extraordinary estiations in national trains, and that a custom which is proved to have existed among savages may ensily be not a universal stage of human development but a bypath, straying into which has condemnad the race in question to savegery. Hence the rule observed by all ementific students of religion that a religion must be explained as far as possible from within the upliers of ideas which is found expressed in that religion. It is disregard of this fundamental principle which has induced Sir J. Frazer to chiny to his theory of the sex Nemocensis, and in the face of the silence of all classical tradition to conjure up the yearly offering of a man at the Sammulia and to assure that his theory is proved by evidence of 301 a.p. from the Danube, in which infer also the essence of the practice recorded was a death by amende, not a sacrifice," and to find in the recorns of the kings of Rome proof of the descent of the kingly power to the foreign linshand of a daughter of the formet king (to 200-323).

The last source of mistake which can be here dealt with is the author's ill-advised disregurd of the evidence of Vedic Dierature. It is true that the names of Oldenberg,

I Brownia and Dramatic Bance, pp. 121-5.

^{*} Beligion of the Ancient Cells, pp. 294 sy.

See Journ. Royal Amatic Secrety, 1915, pp. 133-8.

Macdonell, and Hillsbrandt are to be found in the collection of works used by the author, which is mismand a hildingraphy, but the use made of the year stores of authorities information of actual ritual usage contained in the many parallehed. Vedic texts is wholly inadequate, and indeed mexplicable. Hence we have grave errors such as the mistaking of the mers speculations of the Brahmins (1x. 411) for real popular beliefs, and the overbooking of many pieces of evidence, which would however have had the grave disadvantage of warning the author of the unsafe gramats on which his theories were based. One striking metance may be additiond; Sir J, Frazer has my (x. 328-46; xi. 1-44) abandoned the real support of the theory of the offering of the god as a magic rate to produce fertility, namely, the fire festivals of ancient Europe, which Mannhardt interpreted as the hurning of the vegetatom spirit, by accepting the view of Westermarck that the burning was intended to destroy witches. It is true that despite his definite acceptance of the new view, which strictly speaking overthrows the whole of the principle of the death of the god in order to come to life again, Sir J. Frazer still argues that Balder was burned as a god, but this is perhaps merely an inconsequence. What is more important is that there exects' a record of a period, which may safely be placed at not later than 800 a.c., which tells us of an Indian rate performed at a winter solution in which an Aryan and a Sadra fought each other for the possession of a round white skin, the Aryan proving victor : the text says expressly that the skin was a symbol of the sun, and every competent authority on the subject is agreed that the rite was countially one connected with the giving of power to the sun, a fact which tells quite definitely in favour of the view of Maenhardt that the modern fire festivals are countially connected with the ami's course. But at the same time the same texts show as that the fire was always a most effective weapon to burn up the cvil sprits which assailed the sacrifice, an explanation which is surely worth at hand as much as Westermarck's researches among the Berber tribes. Both features were at any rate present in the Indian winter fire festival of 800 n.c., and the choice between the two made by Sir J. Frazer is needless and unjustified; the difficulty is rather to assign each its due share.

A. REBRIEDALE KEITH.

The Asiatic Dionysos, By Grants M. N. Davis, x+276 pp. Landon S G. Bell and Some 1914. 10s. 6d. net.

This book is an interesting example of the misapplication of erudition in support of a theory based on false premises. Against the prevalent theory of a Thracian origin of Dienysos the author raises the objection that it is necessary to explain the existence of the parallel Some cult in India, and the references to the connection of Dionyzos with that country, Phrygia and Crete, and that this can only be done by holding that the Thracians were the proto-Aryans and that from Thrace the Some cult aprend into Asia and Greece, a hypothesis contradicted by the fact that the worship is not found in northwestern Greece. The reason is obviously wholly without weight, but it has sufficed to lend the author to an elaborate effort to prove that the Dionysos myth and faith were introduced from India, being a rulex of the Some cuit : Some in the process of entering Greene became a wine god : the chants of the pressis were preserved in cult epitlats; the metaphors used by them of the Sours were transformed into anyths, while in the mysteries of Eleusis some of the dasper faith lingered on. Thus Dunyson Malpointages in to be traced to the fact that in the Veda Some is said to flow singing through the sieve, the Zegress myth is due to the alaughter of a rum by the Brahmins at the time of the Soma assertice, as "it is very probable that this rain's fate was considered typical of that

^{*} See Journ. Royal Asiatic Society, 1915, pp. 127-51.

Full accounts of the Mahavrata gite which took place at the winter solution will be found

in A. Hillsbrandt, Die Seamenn/Cone in All-Indien (Roman, Forechungen, v.), and in Trans. of 3rd, Internat, Omgr. Hist. Rel. ii. 49-58

of the Some plant, the Tuans, connected with Sanskrit titdach are powers of the sir, and also identical with the seron Manus and so on. Naturally after this it is not surmising to find that Bakehoo is Bhagu, the distributor of good things, or lakehoo Yaken, or the Asbolis of Henod (Scut. 185) Ascala, or the Neroides commented with Nara, or the Centaurs Gandharvan or that odyin ussma 'winged' or did 'pollute,' or indeed anything also. It must not, of course, he supposed that the responsibility for the original conception of the ridiculous derivation of Dionysess from Soma rests on the author, but she must bear the reaponsibility of resuscitating a view of Langlois and Mairry which has long since been relegated to the limbo of the other theories of a discarded school of mythology. One accessation, however, levelled at Masny is uniosarved the word view which he is accused (p. 140) of inventing is the Sanakrit rems, up-a which, had she recognized it. Miss Davis could have based a strong argument

in support of her theory.

The defects of the mythological portion of the work will doubtless warm the men-Orientailed of the danger of treating the wridence addinged in the first part (pp. 23-132) to prove that Greek philosophy was deeply indebted to India, that Amanism in history and thetoric is due to India, that "naturism" in Greek ort, and the musical innovarious of Timothoos and Phrynis are due to the same source, and that the metre and verbal style of the dithyramb are borrowed from India. To rainte these theses in detail would be meetless: it is sufficient to say that the author does not even know of the existence of the one really serious attempt to prove the indebtedness of Pythagoras to India; that the doctrine of the ages of the world is not known to a single Vedic text proper, and is doubtless much later than the same doctrine in Greece, that Asianism in history and cratory caused have been due to Indian influence if for no other reason than that an ornamental Sanskrit prose and not exist for conturies after the date suggested by Miss Davis (p. 75), that the features styled "naturism" in Greek art are found there long before India had an art which could be imitated, that no person knows anything about the nature of Indian smoot for conturns after the Christian era, and that the posticul style and metre which are supposed to have influenced the dithyrmub are not recorded in Italia until sentures after the dithyramb had flourished.

It need only be added that the author has been singularly unfortunate in her choice of authorities on Vedic religion and life, and that the book is disfigured by far two many A.B. K.

misprints and minor slips.



INDEX TO VOLUME XXXV

L-INDEX OF SUBJECTS

Azutha, inscriptions, 263, prehistorie pot-

tory, 190

Asolians, 177 Alabamin, flute from, 20 Alexander, Iostan festival, 184 Alawiek, eliver dish et. 66 ff.

Amphipolis, 6 ff. Antaios krater, 110

Anthropometry, 225 ft. Antias, name on vise, 193

Antigorus Monophthalmus, Ionian Longue,

Antioch, art of, 75 Antiphollus, tomb, 103

Apellana, month, 31

Aphrodito, 68 Aramaia parelment. 22

Aramardes, 32

Arbitration, Ionian macription, 174

Avendia, inscriptions, 263

Arcturus, rising, in Hoslod, 92 ff.

Ardones, 32

Arezzo, Amazoo kenter at, 115

Argos, inscription, 263; probatoric pol-

Lovy, 1100 Arances, 31 Artemia, 67

Arthunthotes, 82

Aryamia Automs, 31

Arrate, 31

Asia Minur, imeriptisms, 260, 267

Ambatum, 40 Aspendaces, 32 Asthatos, 32

Atlanta, 67 Athons and Rhesos, &

Athens, Arrie vassa at, 100, 137

Arties, inscriptions, 261

Avroman, parchments from, 22 ff.

Bamma, hyparchy, 31

Buithabarta, 31 Barnes, 31

Винкити, 32

Bazzichelli psykter, 189 ff.

Bertin, Attie vasos at, 106 ff. Bias of Prieno, 178

Bisthuibanaps, 32

Boentis, Inscriptions, 263 Bomleys, 15 Bonn, hydrin of Eathymides at 194

Boston, kylix, 109, 118, 123 British Museum, vases, 100 ff., 193 ff.; flutes, 16; inscription, 168; Nereid

Monument, 208 Brygos, visus of, 198

Bulgaria, inscriptions, 270

Byzantine treatme on taxation, 26 ff.

Caror, in soulpture, 225 ff.

Capatram, 18

Cassel Apollo, 236, 256

Castalin, 69 Castallani kylis, 134 Caphallania, inscribed cup, 265

Chaerones, prohistorie postery at, 200 Chosstress, 32

Chrymomides, decree, 261

Cieuro, on beroes, 3 Cimmorians in Louis, 175

Cleopatra, 32

Curles, mentiption, 267

Communeou, Greek, 161 ff.

Copunia, village, 31

Corbridge, silver dish from, 66 ff. Corcyra, inscriptions, 265

Corinth, commerce, 165

Crete, inscriptions, 267 Canciform tablets, dating formulae, 33 Cycledes, inscriptions, 256 Cycledia League, 184; pottery, 198 Cypras, inscriptions, 269

D

Danaeres, 32
Dating formulae, Parthian, 33
Dalos, inscriptions, 263; Ionian festival, 175
Delphi, inscriptions, 263; Judgment of
Paris, 69
Denois, 32
Denoiszun, 32
Denoiszun, 32
Diadiments of Polydaitos, 255
Diah, alver, from Tyne, 66 ff.
Dolon, vane fragments, 123
Dresden, hydria of Eathymides at, 193
Dürer, Canon, 223

E

Entrannon, kylin st. 129

Edomians, 6

Egypt, dutes from, 13

Egyptian sculpture, 225

Elemanian Mysteries, 5

Elemanian Mysteries, 5

Ephroma, aliver work of, 75

Epic Cycle, 80

Epidaurus, inscriptions, 263

Epidaurus, inscriptions, 265

Epidaurus, inscriptions, 265

Erothemis, mane on vasa, 117

Epirus, inscriptions, 266

Easgun of Lampescus, 167

Embros, inscriptions, 265; prehistoric pottery, 205

Enbutos, banker, of Assos, 167

Emphronias, vasas of, 167 ff

Europides, Khess, 4

Earrathens kylin, 109, 119

Euthymides, Bazzicholli psykter, 189 ff

Exapprins, 66

F

FlaxMax, on canon, 229 Flures, 12 ff. France, Greek inscriptions, 269 Frankfurt, Athuna, 236

6

Graues, 32 Gatheres, 31 Geography, 164; of Heand, 88 Georges, 22 Geryon kylix, 111 Glankon, mane on emer, 109 Glabo, symbol, 70 Gortyn, maniphons, 266 Gortyn, maniphons, 266 Goths, kylix, 107 Guild of purple-sellers at Thysura, 170 H

Hancannassus, fines from, 13 Hector, Ionian king, 175 Hera, 68 Herakhas kylix, New York, 123 Hermias, banker, of Assos, 168 Resied, date of, 85 ff. Hissariik, pottery of, 203 Horran, tomb at, 216 Hystoboges, 33

а

Internasia; vase fragmonts, 113
Inscriptions, Lycian, 100 ff.; Greek, 260 ff.;
alliance of Erythrai and Hermins, 168;
arbitration, Melia, 174
Iodabochthes, 32
Ioma, inscriptions, 268
Ioman Confederacy, 173 ff.
Iomic diabett, 260
Italy, Greek inscriptions, 269

я

JUNIAUEST of Paris, 68

抠

Karausta, measurements, 233 Kurdistan, parchments from, 23

L

LEAGRON, name on vasos, 109, 119, 199
Lecture dis Vinci, canon, 226
Lectus, inscription, 267
Leadro, inscriptions, 267
Lianokhadr, prelistorio pottery from, 198
Liverpsol, flutes, 21
Ludovin Throne, 111
Lycia, inscription, 100, 268; sepulchral reliefs, 216
Lydia, inscriptions, 268
Lygiannis, inscription, 175
Lykes, name on vaso, 109, 132

M

Macurosia, inscriptions, 265
Maiphorres, 31
Manuscrips, Bysantian, 76 ff.
Media, Helleman in, 60
Megara, inscriptions, 263
Meiridates, 32
Malfi, sancoplugus, 72
Melia, inscription, 174
Melia, inscription, 174
Melia, Aphrodite, 236; inscriptions, 266
Mengs, Canon, 226, 250
Merchi, tomb, 223

Moron, flutes from, 12 ff Minyan ware, 196 ff. Mirabandaces, 32 Mirabandaces, 32 Monogram, Christian, 66 Monich, Attic vases at, 109, 192 Mycales, Jonan testival, 175 Mycame, prehistoric pottery from, 202

S

NACORASSUS, town, 103 Naples, finites at, 13 Nauplin, preinstoric pottery at, 198 Naxos, inscriptions, 266 New York, Herakhis kylix at, 123 Nisyrus, inscription, 267

a

Ocnosaers, 32
Oipates, 31
Obrimieire, 32
Olympiodorns, name on vises, 193
Ottominios, cases of, 129 ff.
Orondates, 33
Orthomenos, prohistorio pottary from, 198
Orodes, 36
Orpheus, vise fragments, 137
Orphium, 5
Oxford, matrological reliat, 255

P

PARTITUES, inscriptions, 268 Panuitios, name on cases, 100, 119 Parchment mann-cripts, 24, from Kurdistun. 22 ff. Paris, visces, 100, 193 ff Parthian period parchments, 22 ff. Polous and Thetis, vass fraguents, 112 Perugia, kylix, 107 ff., 128 Patrigrad, Hetaira psykter, 110, 100 Phayllos, name on vaso, 192 Philadelphia, consilions tablet, 40 Philliades, name on vase, 115 Phoeis, prehintoria pottery from, 134 ff. Phrahates, 32 Phrygia, inscriptions, 268 Plaidin, inacriptions, 268 Pompen, flates from, 13 Peneulon, cult at Mycalo, 177 Pronomna, finte of, 15 Pythagerus, com-type, 70

R

Brissos, of Thrace, I ff.
 Bhitsona, skyphon from, 134
 Bhodes, inscriptions, 267
 Biday, silver dish from, 68
 Bome, Capitol, flutes, 18
 H.S. --VOL XXXV.

S

SALES, DO Samos, metrologual relief from, 205 Sarcephagi, Late Roman, 71 : Sidon, 223 Sardia, inscriptions, 268 Sculpture, canons, 225 ff. Sinco, 31 Sicily, inscribed silver plate, 270 Sidamara sarcophagus, 71 Sidon sarcophagi, 223 Silver dish from Tyne, 66 ff. Similanes, 40 Smikros, vase-painter, 115 Sobares, 31 Sonian, Patroklon kyliz, 112 Spain, Greek inscriptions, 269 Strabo, 171 f Strymon, colonies, 6 Sycynema, 32 Syria, Greck immriphions, 270

Ŧ

Taxation, Byzantine treatise, 76 ff.
Tenes, inscription, 266
Theles, Jonian politics, 179
Thera, inscriptions, 266
Themas, on vase of Earthymides, 192;
kylix, 121
Thessaly, inscriptions, 264; prehistoric pottery, 200
Thrace, I ff.; inscriptions, 270
Timatheur, eiges of, 182
Tryus, prehistoric pottery from, 198
Troiles kylix, Perugis, 107, 128
Tryin, Baszicheffi insykter, 189
Tybritssus, town, 103
Tybritssus, town, 103
Tymnissus, city, 102
Tyne, silver dish from, 06 ff.

N

Vasos, Attie, 107 ff., 189 ff.; Gracco-Italian, 69; Greek prehistoric, 196 ff. Vonice, Marciana MS, Byzantino, 76 ff. Visima, vase at, 69 Vincyard, contract, 31 Vitravius, canon, 526

w

WCEZEUEG, vasse fragment, 125

X

XANTHOS, Nervid Monument, 298 ff.; stele. 102 f. Xenon, name on vass, 115

II .- GREEK INDEX

άγορανομος, 40 ακούρου, 53 διατρος, 54 'Αλεξάνδρους, festival, 184 διαλογία, 226 διαθρωτοδούρων, 5 'Αστορχός, 188

Samilie, in Bonotia, 90 Boughe, 15

Belliffenne, 24

ζηβαθρον, 58 εξγε ναίχι, 193 εξρυθμία, 226

zkoyimka, 12 ff.

συγγραφη έξαμητοριο, 49 συγγραφοφέλως, 48 συμμετρία, 226

Deskibures, 59

III.—BOOKS NOTICED.

Batter (Ct.), The Eastern Libyans, 158

Cook (A. B.), Zeus, I., 149

Davis (Gladys M. N.), The Asiatic Diony-»м, 284

Dussant (R.), Les Cipiliastions probellénsques dans la banen de la Mer Egés, Lite

Elto (A.), Kin athenisches treests uber die

elsuminate Apsoche, 154
Evana (A.), The Timb of the Double Axes and Assembled Group, and Pillar Rooms and Ritual Vessels of the Little Palme at Kamus, 271

Frazer (J.), The Golden Bough, Ed. 3, 281

Gardiner (E. A.), A Handbook of Greek

Scalpture, 278
Gardner (P.), The Principles of Greek Art,

Hadinezek (C.), Les Mannenauts archéolo-giques de la Gallieis, I., 153

Hogarth (D. G.), The Ancient East, 277 Hoskier (H. C.), Codes B and its Allies,

Koldowey (R.), The Executions at Balegion,

Militages Hellerma, 152 Minns (E. H.), Scythians and Greeks, 149 Myre (J. L.), Handbook of the Ceenda Collection of Antiquities from Cyprus, Parkyn (E. A.), An Introduction to the Study of Probuleric Art, 281

Quiggin (E. C.) [ed.], Essays and Studies presented to William Rudgeary on his Statisth Birthiley, 151

Reimsch (A.), Catalogue des Antiquités hyptiennes recueillies dans les fauilles de Koptos, 1910-11 (Musee Guinnat de Lyon),

Richter (Ginela M. A.), The Metropoliton Museum of Art, New York, Greek, Etconcan and Roman Bruces, 274

Realistsev (M. 1), Aulichnaja Delavali-naja Zhicapia na juja Rossii, 143

Sartiaux (F.), Les Sculphures et la Bestaura-tion du Temple d'Asses en Teorde, 274
 Sykos (P. M.), A History of Person, 277

Wace (A. J. B.) and Thompson (M. S.), The Nomada of the Ballions, 146 Waltors (H. B.), Catalogue of the Greek and

Roman Lamps in the British Museum, 280 : Select Bronzes, Greek, Komun and

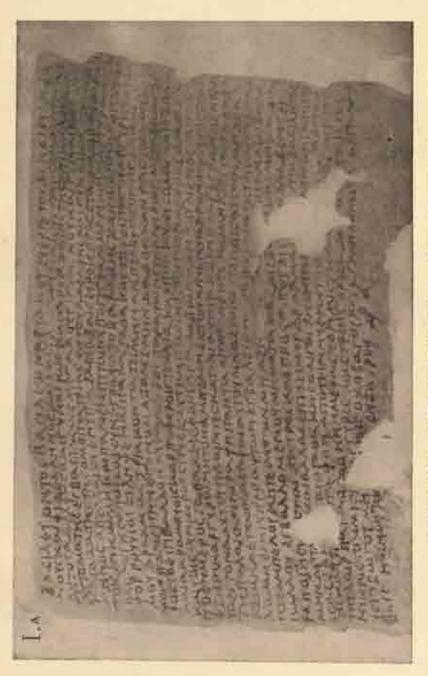
Etruscan, in the British Museum, 275 Weber (F. Parkes), Aspects of Death in Art and Epogram, 152

Xanthoudides (8. A.), Birtierter Kapadana Ерытокритов, 154

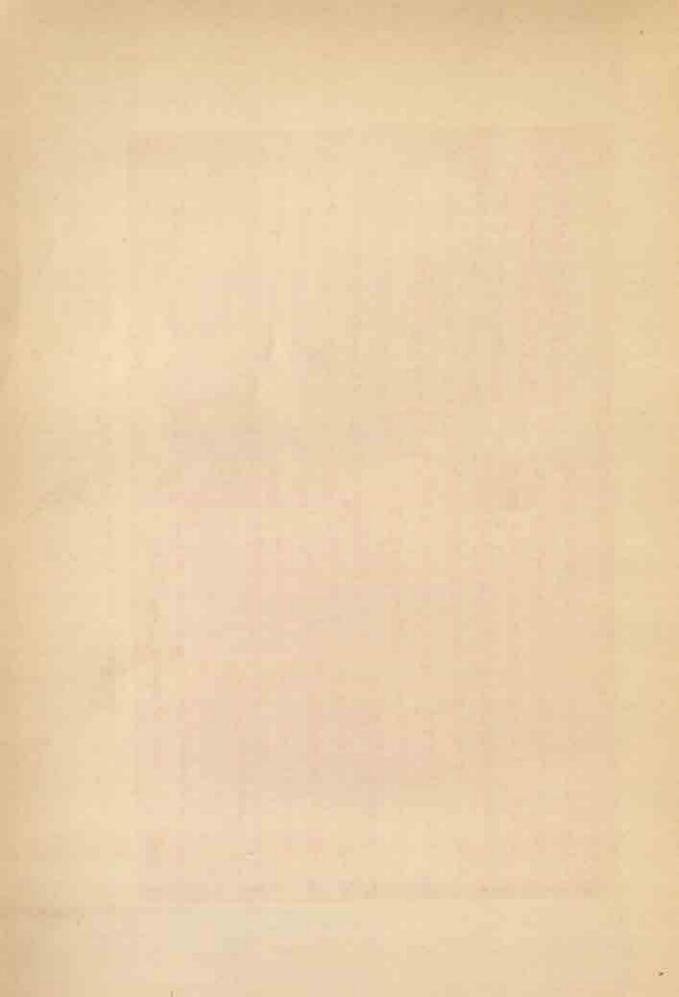
Ziebarth (E.), Aus dem griechischen Schut**всемен**, 158

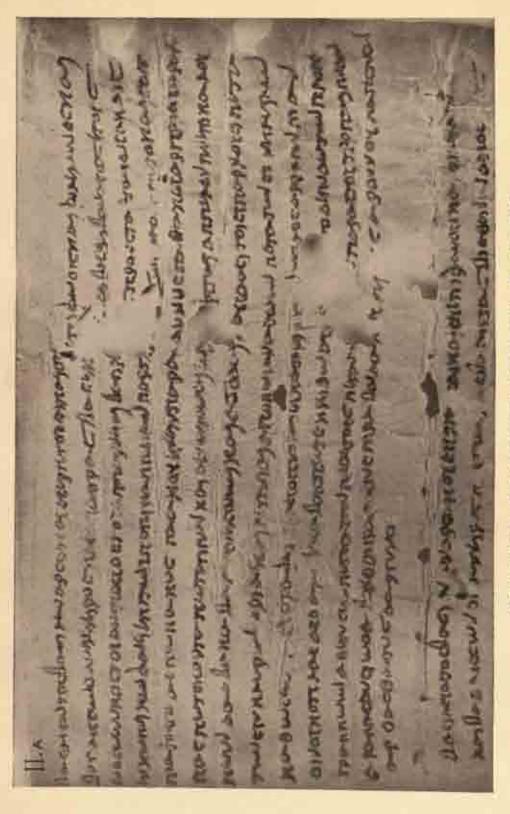
Zimmern (A. E.). The Greek Commonwealth,

PRINTED IN ARREST DESTRUCTION,
REPRESENTE SPRINTER, STANFOLD STREET, STANFOLD STREET, STANFOLD STREET, S.R.,
AND RESOLAT, SUPPOLE.

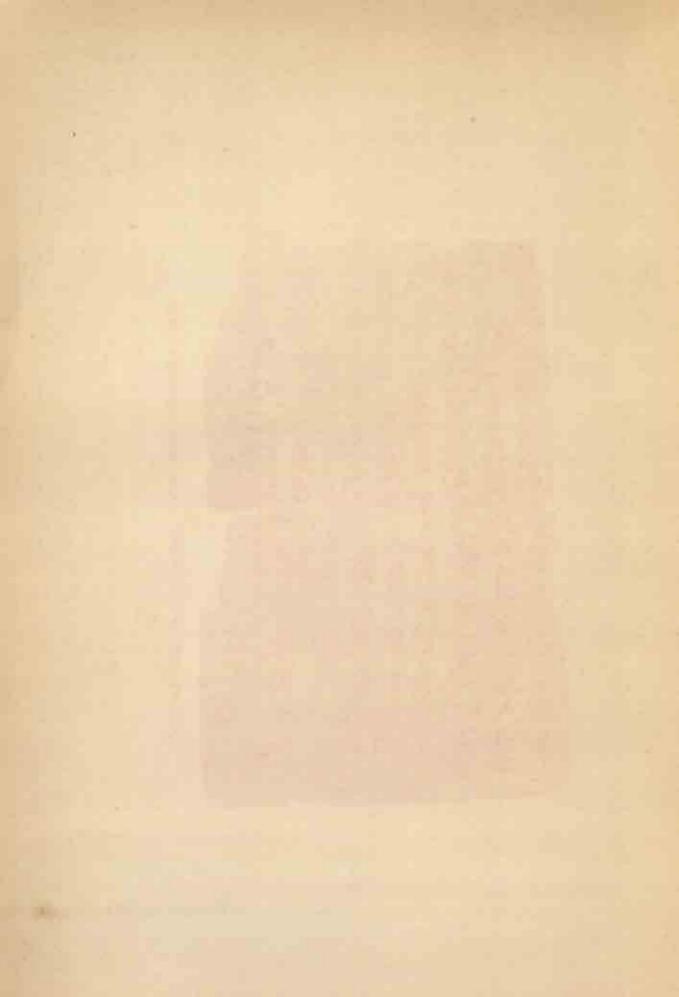


PARCHMENT I. FROM AVROMAN, DATED A.SEL. 225-B.C. 88.



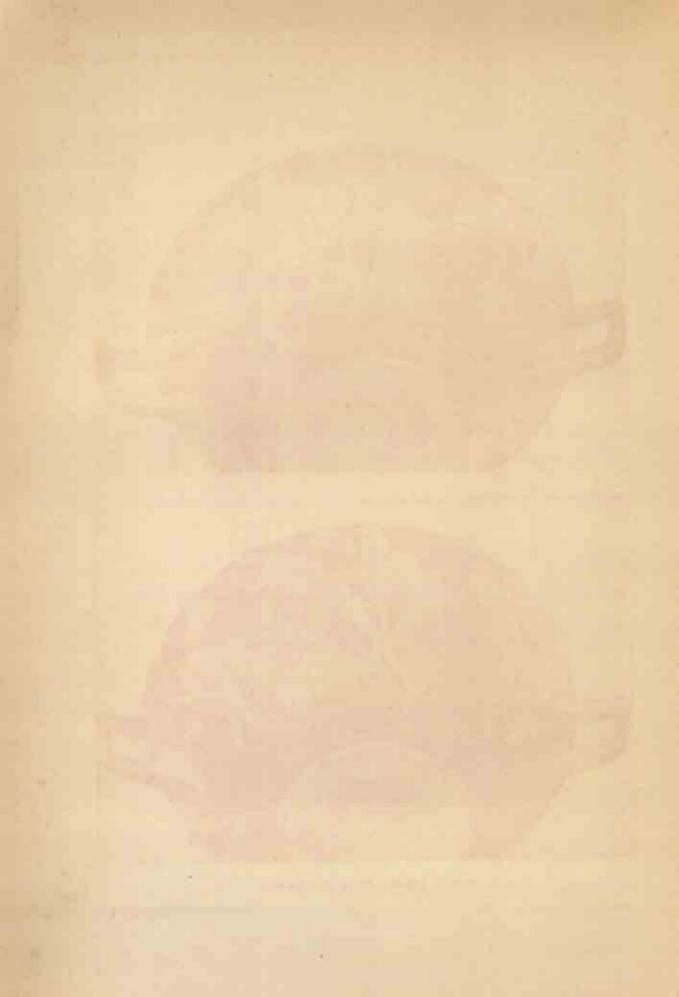


PARCHMENT II. FROM AVROMAN, DATED A.SEL. 281=B.C. 22/21.





PARCHMENT III. FROM AVROMAN, FOUND WITH THE GREEK DEEDS.

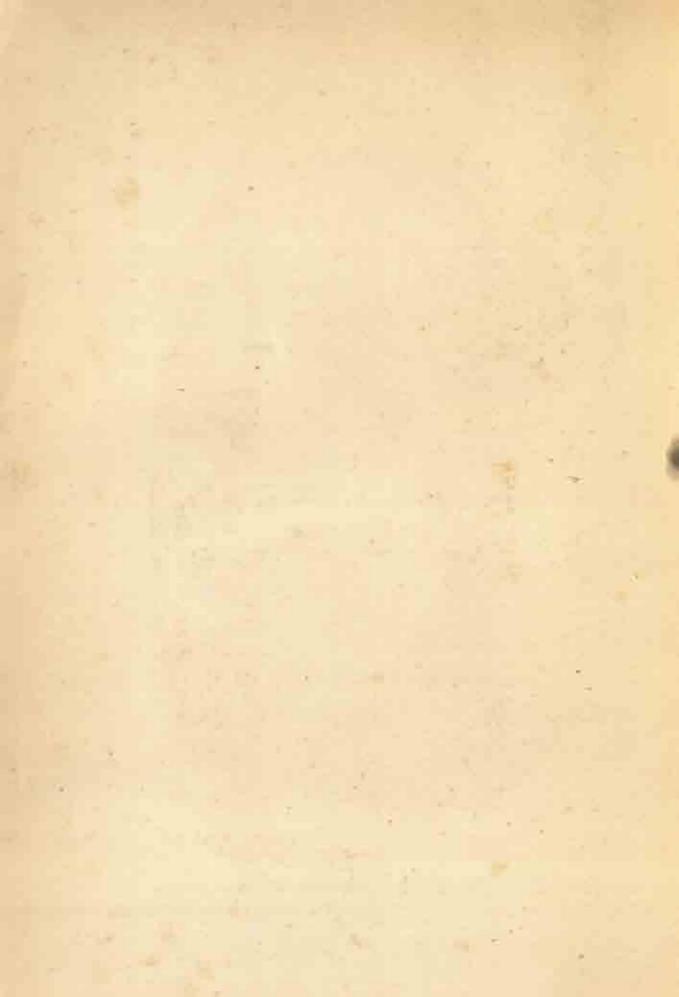






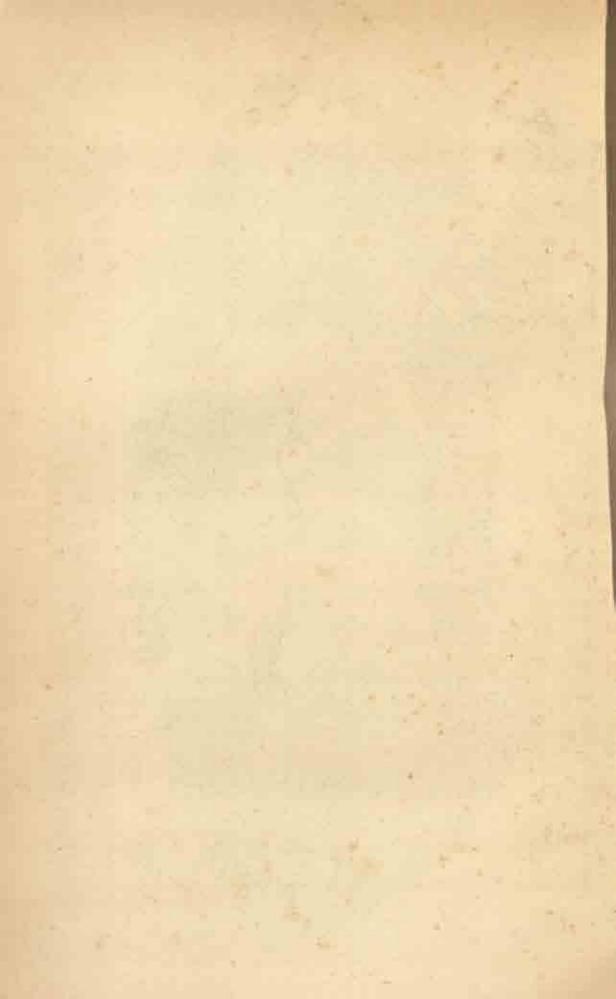
KYLIX SIGNED BY EUPHRONIOS

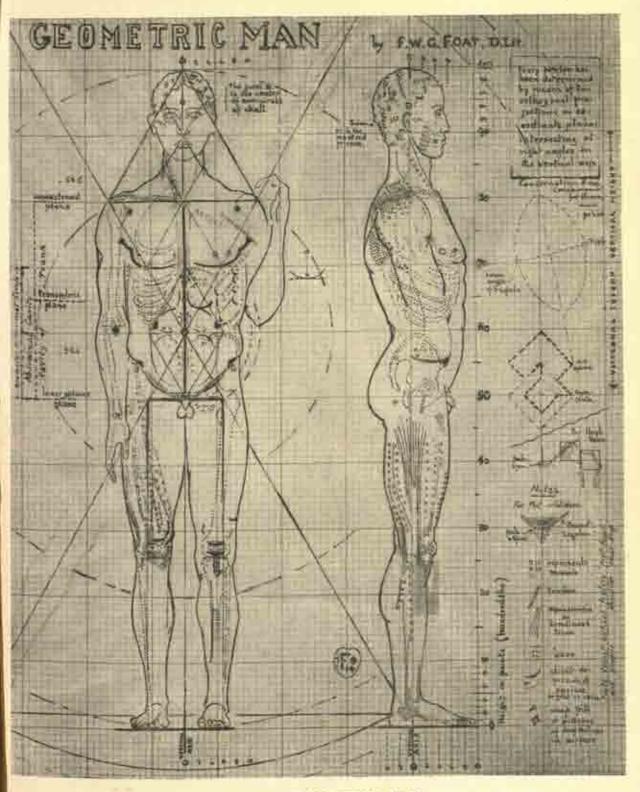
LQUVRE.



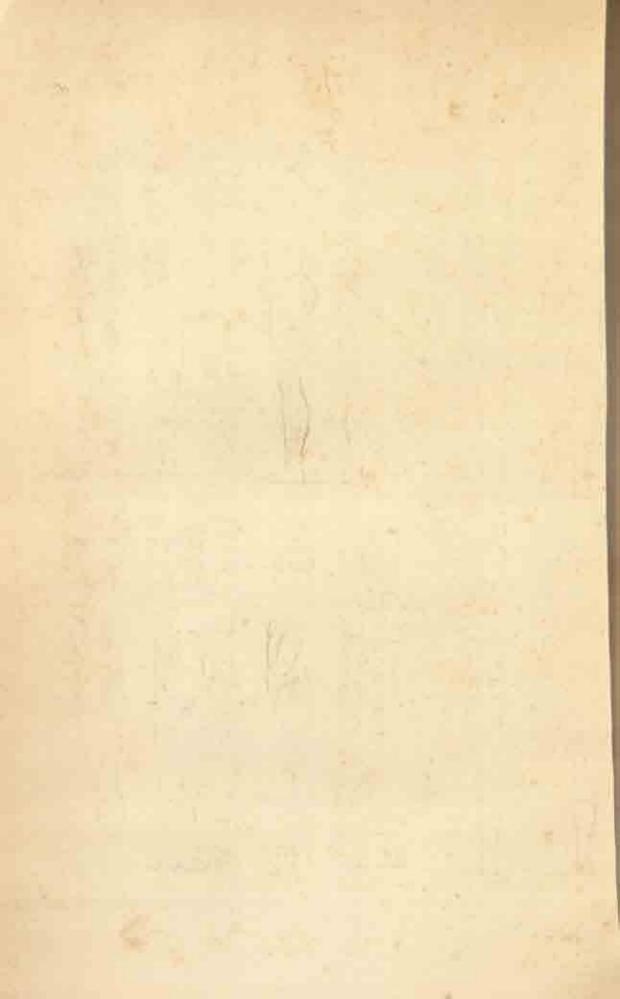


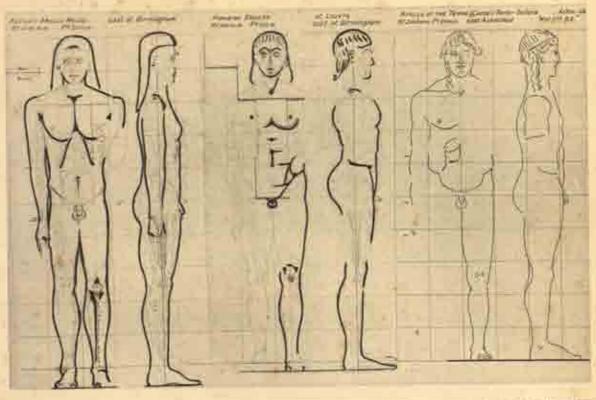
PSYKTER SIGNED BY EUTHYMIDES (A)

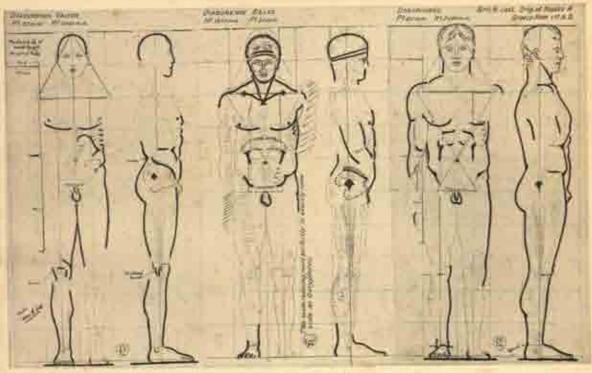




SCHEME OF GEOMETRIC MAN

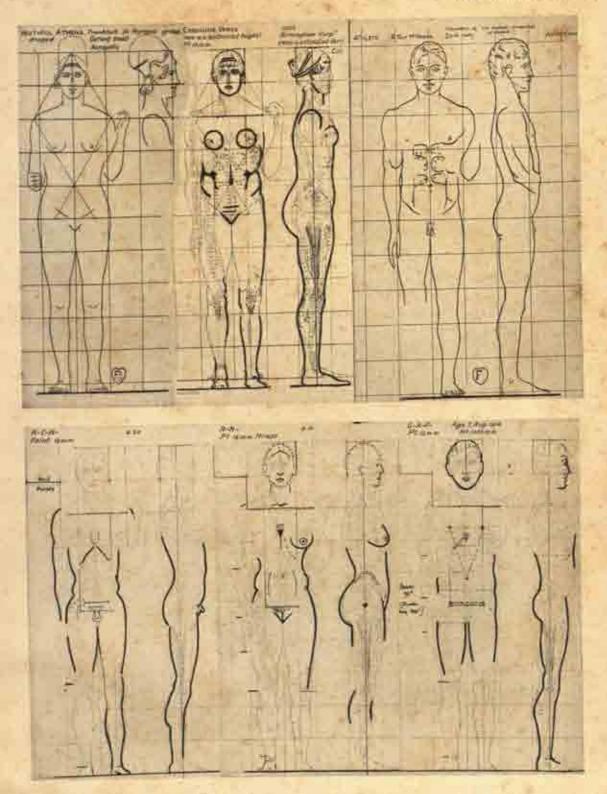




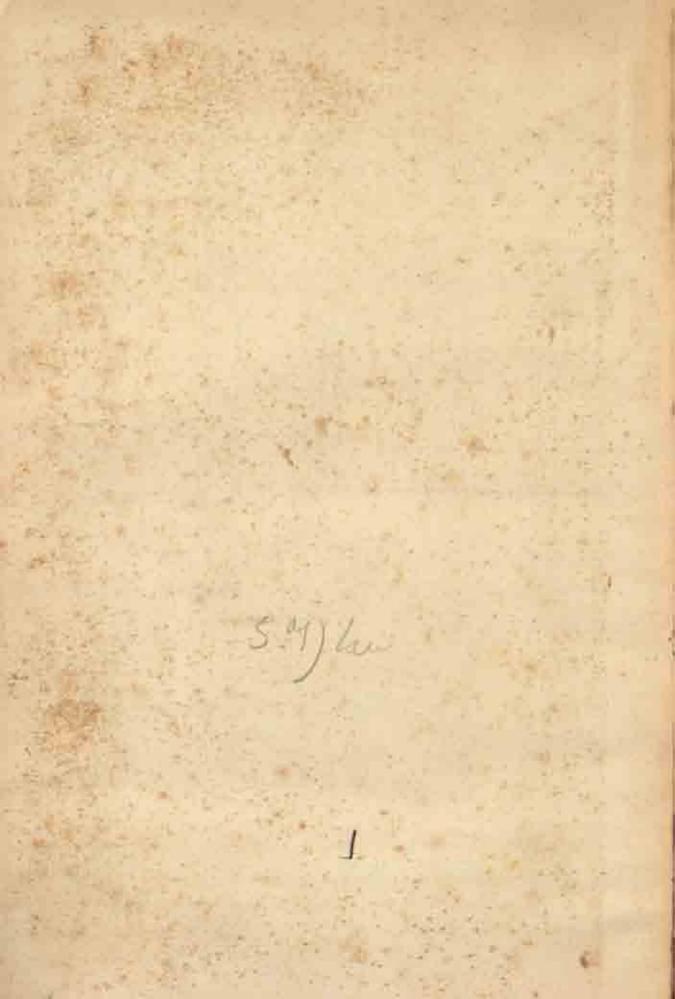


MEASUREMENTS OF STATUES ARCHAIC TO FIFTH CENTURY.





MEASUREMENTS OF STATUES AND LIVING FIGURES.







"A book that is skut is but a block"

ARCHAEOLOGICAL ARCHAEOLOGICAL Department of Archaeology NEW DELHI.

Please help us to keep the book clean and moving.

de w. jellen, beiber.